

## Pin Diode Switches (Reflective & Absorptive)

### FEATURES:

- ❖ Switches with integral TTL drivers.
- ❖ Available from 0.05-110Ghz
- ❖ Low Insertion Loss
- ❖ Single Throw Switches (SP1T) –6% bandwidth (10ns & 100ns)
- ❖ Double Throw Switches (SP2T)- 6% Bandwidth (10ns)

### APPLICATIONS:

- ❖ Wave shaping
- ❖ Duplexing
- ❖ Pulse Modulation
- ❖ Signal Switching
- ❖ Receiver Protection



**CXT Series**

### DESCRIPTION:

**Cernex's CXT series** PIN diode switches are reflective switches that combine low loss, high isolation performance with an integral TTL driver in a compact package. Various driver options are available. The switches are also available in higher isolation versions up to 100dB. These switches can also be supplied without drivers. Non reflective switches are also available.

### SPECIFICATIONS:

#### C1T (SP1T): Reflective

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C1TDC060664TY | DC-6                  | 1.6 typ.                 | 60 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C1TH1U20770Y  | 0.001-0.2             | 0.7                      | 70                  | 1.5:1            | 1000                           | 1         | *                      | 26x16x12                     |
| C1TV2U51280T  | 0.02-0.5              | 1.2                      | 80                  | 1.5              | 100-500                        | 1         | *                      | *                            |
| C1TV2010970Y  | 0.02-1                | 0.9                      | 70                  | 1.5:1            | 100                            | 1         | *                      | 26x16x12                     |
| C1TV2032060Y  | 0.02-3                | 2                        | 60                  | 1.7:1            | 100                            | 1         | *                      | 26x16x12                     |
| C1TU5011380T  | 0.5-1                 | 1.3                      | 80                  | 1.5              | 100                            | 1         | *                      | *                            |
| C1TU5041260Y  | 0.5-4                 | 1.2                      | 60                  | 1.5              | 50                             | 1         | *                      | 26x16x12                     |
| C1T01020880T  | 1-2                   | 0.8                      | 80                  | 1.5              | 50                             | 1         | *                      | *                            |
| C1T02041280T  | 2-4                   | 1.2                      | 80                  | 1.5              | 50                             | 1         | +/-5V@+40mA/-10mA Typ. | SW1                          |
| C1T02081760Y  | 2-8                   | 1.7                      | 60                  | 2.0              | 50                             | 1         | *                      | 26x16x12                     |
| C1T02182255T  | 2-18                  | 2.2                      | 55                  | 2.2              | 50                             | 1         | *                      | *                            |
| C1T02183160Y  | 2-18                  | 3.1                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 26x16x12                     |
| C1T04081560T  | 4-8                   | 1.5                      | 60                  | 1.6              | 50                             | 1         | *                      | *                            |
| C1T06122360Y  | 6-12                  | 2.3                      | 60                  | 2.0              | 50                             | 1         | *                      | 26x16x12                     |
| C1T06183060Y  | 6-18                  | 3.0                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 26x16x12                     |
| C1T08121860T  | 8-12                  | 1.8                      | 60                  | 1.7              | 50                             | 1         | *                      | SW1                          |
| C1T12182260T  | 12-18                 | 2.2                      | 60                  | 2.0              | 50                             | 1         | *                      | SW1                          |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE



## Pin Diode Switches

\* CONSULT THE FACTORY

### C2T (SP2T): Reflective

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C2TDC030435TY | DC-3                  | 1.4 typ.                 | 35 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C2TH1U20870Y  | 0.001-0.2             | 0.8                      | 70                  | 1.5              | 1000                           | 1         | *                      | 26x18x12                     |
| C2TV2U51380T  | 0.02-0.5              | 1.3                      | 80                  | 1.5              | 100-500                        | 1         | *                      | *                            |
| C2TV2011070Y  | 0.02-1                | 1.0                      | 70                  | 1.5              | 100                            | 1         | *                      | 26x18x12                     |
| C2TV2032160Y  | 0.02-3                | 2.1                      | 60                  | 1.7              | 100                            | 1         | *                      | 26x18x12                     |
| C2TU5011480T  | 0.5-1                 | 1.4                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C2TU5041460Y  | 0.5-4                 | 1.4                      | 60                  | 1.5              | 50                             | 1         | *                      | 26x18x12                     |
| C2TU8010427TQ | 0.8-1.7               | 0.8 typ.                 | 27 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C2T01021080T  | 1-2                   | 1.0                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C2T02041380T  | 2-4                   | 1.3                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C2T02081860Y  | 2-8                   | 1.8                      | 60                  | 2.0              | 50                             | 1         | *                      | 26x18x12                     |
| C2T02080245TY | 2-8                   | 2 typ.                   | 45 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C2T02182460T  | 2-18                  | 2.4                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C2T02183260Y  | 2-18                  | 3.2                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 26x18x12                     |
| C2T02200440TY | 2-20                  | 4 typ.                   | 40 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C2T02020628TQ | 2.4-2.5               | 1 typ.                   | 28 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C2T04081660T  | 4-8                   | 1.6                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C2T05062080   | 5-6                   | 2.0                      | 70                  | 1.5:1            | 100                            | *         | 20mA/±5V               | SW2-2                        |
| C2T06122560Y  | 6-12                  | 2.5                      | 60                  | 2.0              | 50                             | 1         | *                      | 26x18x12                     |
| C2T06183160Y  | 6-18                  | 3.1                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 26x18x12                     |
| C2T08122060T  | 8-12                  | 2.0                      | 60                  | 1.7              | 50                             | 0.2       | *                      | *                            |
| C2T12182560T  | 12-18                 | 2.5                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |
| C2T18263560   | 18.5-26               | 3.5                      | 60                  | 2.3              | 500                            | *         | 30mA/±5V               | SW2                          |
| C2T24430236TQ | 24-43                 | 3 typ.                   | 36 typ.             | 2.5:1typ.        | *                              | *         | *                      | *                            |
| C2T26404555   | 26.5-40               | 4.5                      | 55                  | 2.5              | 500                            | *         | 30mA/±5V               | SW2                          |
| C2T27460927TQ | 27-46                 | 3 typ.                   | 27 typ.             | 2:1 typ.         | 40                             | 1         | 20mA/±5V               | SW2                          |
| C2T32400935TQ | 32-40                 | 3 typ.                   | 35 typ.             | 2:1 typ.         | 40                             | 1         | 30mA/±5V               | SW2                          |
| C2T34364040   | 34-36                 | 4.0                      | 40                  | 2:1 typ.         | 300                            | 1         | 30mA/±5                | SW2                          |
| C2T50601530U  | 50-60                 | 3.5 typ.                 | 30 typ.             | 2:1 typ.         | *                              | *         | *                      | *                            |
| C2T55621530V  | 55-62                 | 3.5 typ.                 | 30 typ.             | 2:1 typ.         | *                              | *         | *                      | *                            |
| C2T70865530V  | 70-86                 | 5.5 typ.                 | 30 typ.             | 2:1 typ.         | 25 Typ                         | 100mW     | 30mA/±5V<br>-5mA       | TBD                          |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

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## Pin Diode Switches

### C3T (SP3T): Reflective

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C3TDC030527TY | DC-3                  | 1.5 typ.                 | 27 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C3TH1U21070Y  | 0.001-0.2             | 1.0                      | 70                  | 1.5              | 1000                           | 1         | *                      | 39x26x12                     |
| C3TV2U51480T  | 0.02-0.5              | 1.4                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C3TV2011270Y  | 0.02-1                | 1.2                      | 70                  | 1.5              | 100                            | 1         | *                      | 39x26x12                     |
| C3TV2032260Y  | 0.02-3                | 2.2                      | 60                  | 1.7              | 100                            | 1         | *                      | 39x26x12                     |
| C3TU5011580T  | 0.5-1                 | 1.5                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C3TU5041560Y  | 0.5-4                 | 1.5                      | 60                  | 1.5              | 50                             | 1         | *                      | 39x26x12                     |
| C3TU8191528TQ | 0.8-1.9               | 1.5 typ.                 | 28 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C3T01021280T  | 1-2                   | 1.2                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C3T02041380T  | 2-4                   | 1.3                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C3T02082060Y  | 2-8                   | 2.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 39x26x12                     |
| C3T02183260Y  | 2-18                  | 3.2                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 39x26x12                     |
| C3T02182560T  | 2-18                  | 2.5                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C3T04081760T  | 4-8                   | 1.7                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C3T06122760Y  | 6-12                  | 2.7                      | 60                  | 2.0              | 50                             | 1         | *                      | 39x26x12                     |
| C3T06183260Y  | 6-18                  | 3.2                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 39x26x12                     |
| C3T08122060T  | 8-12                  | 2.0                      | 60                  | 1.7              | 50                             | 0.2       | *                      | *                            |
| C3T12182660T  | 12-18                 | 2.6                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |
| C3T70857040TQ | 70-85                 | 7 typ.                   | 40 typ.             | 2:1 typ.         | 50                             | 0.2       | *                      | *                            |
| C3T74805024TY | 74-80                 | 5 typ.                   | 24 typ.             | 2:1 typ.         | 50                             | 0.2       | *                      | *                            |

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### C4T (SP4T): Reflective

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C4TDC081842H  | DC-8                  | 2.5 typ.                 | 42 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C4TH1U21370Y  | 0.001-0.2             | 1.3                      | 70                  | 1.5              | 1000                           | 1         | *                      | 52x26x12                     |
| C4TV2U51580T  | 0.02-0.5              | 1.5                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C4TV2011470Y  | 0.02-1                | 1.4                      | 70                  | 1.5              | 100                            | 1         | *                      | 52x26x12                     |
| C4TV2032460Y  | 0.02-3                | 2.4                      | 60                  | 1.7              | 100                            | 1         | *                      | 52x26x12                     |
| C4TU5011680T  | 0.5-1                 | 1.6                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C4TU5021530TQ | 0.5-2                 | 1.5 typ.                 | 30 typ.             | 2:1              | *                              | *         | *                      | *                            |



## Pin Diode Switches

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C4TU5041860Y  | 0.5-4                 | 1.8                      | 60                  | 1.5              | 50                             | 1         | *                      | 52x26x12                     |
| C4T01021280T  | 1-2                   | 1.2                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C4T02041480T  | 2-4                   | 1.4                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C4T02082260Y  | 2-8                   | 2.2                      | 60                  | 2.0              | 50                             | 1         | *                      | 52x26x12                     |
| C4T02182760T  | 2-18                  | 2.7                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C4T02183460Y  | 2-18                  | 3.4                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 52x26x12                     |
| C4T04081860T  | 4-8                   | 1.8                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C4T06122960Y  | 6-12                  | 2.9                      | 60                  | 2.0              | 50                             | 1         | *                      | 52x26x12                     |
| C4T06183460Y  | 6-18                  | 3.4                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 52x26x12                     |
| C4T08122160T  | 8-12                  | 2.1                      | 60                  | 1.7              | 50                             | 0.2       | *                      | *                            |
| C4T12182860T  | 12-18                 | 2.8                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |
| C4T22260340TY | 22-26                 | 3.0 typ.                 | 40 typ.             | 2:1              | *                              | *         | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

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### C5T (SP5T): Reflective

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C5TH1U21570Y  | 0.001-0.2             | 1.5                      | 70                  | 1.5              | 1000                           | 1         | *                      | 65x26x12                     |
| C5TV2U51580T  | 0.02-0.5              | 1.5                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C5TV2011670Y  | 0.02-1                | 1.6                      | 70                  | 1.5              | 100                            | 1         | *                      | 65x26x12                     |
| C5TV2032660Y  | 0.02-3                | 2.6                      | 60                  | 1.7              | 100                            | 1         | *                      | 65x26x12                     |
| C5TU5011680T  | 0.5-1                 | 1.6                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C5TU5042060Y  | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                      | 65x26x12                     |
| C5T01021380T  | 1-2                   | 1.3                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C5T02041580T  | 2-4                   | 1.5                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C5T02082460Y  | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                      | 65x26x12                     |
| C5T02181835TY | 2-18                  | 2.5 typ.                 | 35 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C5T02182860T  | 2-18                  | 2.8                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C5T02183560Y  | 2-18                  | 3.5                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 65x26x12                     |
| C5T04081860T  | 4-8                   | 1.8                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C5T06123060Y  | 6-12                  | 3.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 65x26x12                     |
| C5T06183560Y  | 6-18                  | 3.5                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 65x26x12                     |
| C5T08122160T  | 8-12                  | 2.1                      | 60                  | 1.7              | 50                             | 0.2       | *                      | *                            |
| C5T12182960T  | 12-18                 | 2.9                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |



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|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C5T75791024TY | 75-79                 | 10 typ.                  | 24 typ.             | 2:1 typ          | 50                             | 0.2       | *                      | *                            |

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\* CONSULT THE FACTORY

### C6T (SP6T): Reflective

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C6TH1U21570Y  | 0.001-0.2             | 1.5                      | 70                  | 1.5              | 1000                           | 1         | *                      | 78x32x12                     |
| C6TV2U51680T  | 0.02-0.5              | 1.6                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C6TV2011670Y  | 0.02-1                | 1.6                      | 70                  | 1.5              | 100                            | 1         | *                      | 78x32x12                     |
| C6TV2032660Y  | 0.02-3                | 2.6                      | 60                  | 1.7              | 100                            | 1         | *                      | 78x32x12                     |
| C6TU5011780T  | 0.5-1                 | 1.7                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C6TU5020545TY | 0.5-2.5               | 1.5 typ.                 | 45 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C6TU5042060Y  | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                      | 78x32x12                     |
| C6T01021480T  | 1-2                   | 1.4                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C6T02041680T  | 2-4                   | 1.6                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C6T02082460Y  | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                      | 78x32x12                     |
| C6T02181935TY | 2-18                  | 2.8 typ.                 | 35 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C6T02183060T  | 2-18                  | 3.0                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C6T02183560Y  | 2-18                  | 3.5                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 78x32x12                     |
| C6T04082060T  | 4-8                   | 2.0                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C6T06123060Y  | 6-12                  | 3.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 78x32x12                     |
| C6T06183560Y  | 6-18                  | 3.5                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 78x32x12                     |
| C6T08122360T  | 8-12                  | 2.3                      | 60                  | 1.7              | 50                             | 0.2       | *                      | *                            |
| C6T12183260T  | 12-18                 | 3.2                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |

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### C7T (SP7T): Reflective

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C7TH1U21770Y | 0.001-0.2             | 1.7                      | 70                  | 1.5              | 1000                           | 1         | *                      | 105x42x12                    |
| C7TV2U51780T | 0.02-0.5              | 1.7                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C7TV2011870Y | 0.02-1                | 1.8                      | 70                  | 1.5              | 100                            | 1         | *                      | 105x42x12                    |

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|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C7TV2032860Y | 0.02-3                | 2.8                      | 60                  | 1.7              | 100                            | 1         | *                      | 105x42x12                    |
| C7TU5011880T | 0.5-1                 | 1.8                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C7TU5042060Y | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                      | 105x42x12                    |
| C7T01021480T | 1-2                   | 1.4                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C7T02041680T | 2-4                   | 1.6                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C7T02082460Y | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                      | 105x42x12                    |

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|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C7T02183260T | 2-18                  | 3.2                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C7T02183560Y | 2-18                  | 3.5                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 105x42x12                    |
| C7T04082060T | 4-8                   | 2.0                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C7T06123060Y | 6-12                  | 3.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 105x42x12                    |
| C7T06183560Y | 6-18                  | 3.5                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 105x42x12                    |
| C7T08122560T | 8-12                  | 2.5                      | 60                  | 1.7              | 50                             | 0.2       | *                      | *                            |
| C7T12183360T | 12-18                 | 3.3                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C8T (SP8T): Reflective

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C8TDC100238H | DC-10                 | 3.0 typ.                 | 38 typ.             | *                | *                              | *         | *                      | *                            |
| C8TH1U21770Y | 0.001-0.2             | 1.7                      | 70                  | 1.5              | 1000                           | 1         | *                      | 110x42x16                    |
| C8TV2U51780T | 0.02-0.5              | 1.7                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C8TV2011870Y | 0.02-1                | 1.8                      | 70                  | 1.5              | 100                            | 1         | *                      | 110x42x16                    |
| C8TV2033060Y | 0.02-3                | 3.0                      | 60                  | 1.7              | 100                            | 1         | *                      | 110x42x16                    |
| C8TU5011880T | 0.5-1                 | 1.8                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C8TU5042060Y | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                      | 110x42x16                    |
| C8T01021480T | 1-2                   | 1.4                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C8T02041780T | 2-4                   | 1.7                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C8T02082460Y | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                      | 110x42x16                    |
| C8T02183760Y | 2-18                  | 3.7                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 110x42x16                    |
| C8T02184060T | 2-18                  | 4.0                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |



## Pin Diode Switches

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C8T04082260T | 4-8                   | 2.2                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C8T06123060Y | 6-12                  | 3.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 110x42x16                    |
| C8T06183760Y | 6-18                  | 3.7                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 110x42x16                    |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C1T (SP1T): Absorptive

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) Max. | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|----------------|------------------------|------------------------------|
| C1TH1U21370Y | 0.001-0.2             | 1.3                      | 70                  | 1.5              | 1000                           | 1              | *                      | 26x16x12                     |
| C1TV2U51480T | 0.02-0.5              | 1.4                      | 80                  | 1.5              | 100-500                        | 0.2-1          | *                      | *                            |
| C1TV2011570Y | 0.02-1                | 1.5                      | 70                  | 1.5              | 100                            | 1              | *                      | 26x16x12                     |
| C1TV2032460Y | 0.02-3                | 2.4                      | 60                  | 1.7              | 100                            | 1              | *                      | 26x16x12                     |
| C1TV2032460T | 0.02-3                | 2.4                      | 60                  | 2.0              | 200                            | 0.2            | *                      | *                            |
| C1TU5011580T | 0.5-1                 | 1.5                      | 80                  | 1.5              | 100                            | 0.2            | *                      | *                            |
| C1TU5041660Y | 0.5-4                 | 1.6                      | 60                  | 1.5              | 50                             | 1              | *                      | 26x16x12                     |
| C1T01021080T | 1-2                   | 1.0                      | 80                  | 1.5              | 50                             | 0.2            | *                      | *                            |
| C1T02042060T | 2-4                   | 2.0                      | 60                  | 1.6              | 50                             | 0.2            | *                      | *                            |
| C1T02082060Y | 2-8                   | 2.0                      | 60                  | 2.0              | 50                             | 1              | *                      | 26x16x12                     |
| C1T02183160T | 2-18                  | 3.1                      | 60                  | 2.2              | 50                             | 0.2            | *                      | *                            |
| C1T02183260Y | 2-18                  | 3.2                      | 60                  | 2.2              | 50                             | 0.5            | *                      | 26x16x12                     |
| C1T06122560Y | 6-12                  | 2.5                      | 60                  | 2.0              | 50                             | 1              | *                      | 26x16x12                     |
| C1T06183260Y | 6-18                  | 3.2                      | 60                  | 2.0              | 50                             | 1              | *                      | 26x16x12                     |
| C1T08122560T | 8-12                  | 2.5                      | 60                  | 1.5              | 50                             | 0.2-2          | *                      | *                            |
| C1T12183260T | 12-18                 | 3.2                      | 60                  | 2.0              | 50                             | 0.2            | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C2T (SP2T): Absorptive

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C2TH1U21370Y | 0.001-0.2             | 1.3                      | 70                  | 1.5              | 1000                           | 1         | *                      | 26x18x12                     |
| C2TV2U51580T | 0.02-0.5              | 1.5                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |

## Pin Diode Switches

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C2TV2011570Y | 0.02-1                | 1.5                      | 70                  | 1.5              | 100                            | 1         | *                      | 26x18x12                     |
| C2TV2032460Y | 0.02-3                | 2.4                      | 60                  | 1.7              | 100                            | 1         | *                      | 26x18x12                     |
| C2TV2032560T | 0.02-3                | 2.5                      | 60                  | 2.0              | 200                            | 0.2       | *                      | *                            |
| C2TU5011680T | 0.5-1                 | 1.6                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C2TU5041660Y | 0.5-4                 | 1.6                      | 60                  | 1.5              | 50                             | 1         | *                      | 26x18x12                     |
| C2T01021280T | 1-2                   | 1.2                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C2T02042060T | 2-4                   | 2.0                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C2T02082060Y | 2-8                   | 2.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 26x18x12                     |
| C2T02183260T | 2-18                  | 3.2                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C2T02183260Y | 2-18                  | 3.2                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 26x18x12                     |
| C2T06122560Y | 6-12                  | 2.5                      | 60                  | 2.0              | 50                             | 1         | *                      | 26x18x12                     |
| C2T06183260Y | 6-18                  | 3.2                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 26x18x12                     |
| C2T08122660T | 8-12                  | 2.6                      | 60                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C2T12183260T | 12-18                 | 3.2                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C3T (SP3T): Absorptive

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C3TH1U21570Y | 0.001-0.2             | 1.5                      | 70                  | 1.5              | 1000                           | 1         | *                      | 39x26x12                     |
| C3TV2U51580T | 0.02-0.5              | 1.5                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C3TV2011670Y | 0.02-1                | 1.6                      | 70                  | 1.5              | 100                            | 1         | *                      | 39x26x12                     |
| C3TV2032560Y | 0.02-3                | 2.5                      | 60                  | 1.7              | 100                            | 1         | *                      | 39x26x12                     |
| C3TV2032660T | 0.02-3                | 2.6                      | 60                  | 2.0              | 200                            | 0.2       | *                      | *                            |
| C3TU5011680T | 0.5-1                 | 1.6                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C3TU5041760Y | 0.5-4                 | 1.7                      | 60                  | 1.5              | 50                             | 1         | *                      | 39x26x12                     |
| C3T01021480T | 1-2                   | 1.4                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C3T02042160T | 2-4                   | 2.1                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C3T02082260Y | 2-8                   | 2.2                      | 60                  | 2.0              | 50                             | 1         | *                      | 39x26x12                     |
| C3T02183360T | 2-18                  | 3.3                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C3T02183660Y | 2-18                  | 3.6                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 39x26x12                     |
| C3T06122760Y | 6-12                  | 2.7                      | 60                  | 2.0              | 50                             | 1         | *                      | 39x26x12                     |
| C3T06183560Y | 6-18                  | 3.5                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 39x26x12                     |
| C3T08122760T | 8-12                  | 2.7                      | 60                  | 1.5              | 50                             | 0.2       | *                      | *                            |



## Pin Diode Switches

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C3T12183360T | 12-18                 | 3.3                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C4T (SP4T): Absorptive

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ.  | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|-------------------------|------------------------------|
| C4TH1U21670Y | 0.001-0.2             | 1.6                      | 70                  | 1.5              | 1000                           | 1         | *                       | 52x26x12                     |
| C4TV2U51680T | 0.02-0.5              | 1.6                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                       | *                            |
| C4TV2011770Y | 0.02-1                | 1.7                      | 70                  | 1.5              | 100                            | 1         | *                       | 52x26x12                     |
| C4TV2032760Y | 0.02-3                | 2.7                      | 60                  | 1.7              | 100                            | 1         | *                       | 52x26x12                     |
| C4TV2032760T | 0.02-3                | 2.7                      | 60                  | 2.0              | 200                            | 0.2       | *                       | *                            |
| C4TV7144080  | 0.07-14.5             | 4.0 Max                  | 80                  | 2.0              | 50                             | 0.2       | +5V@100mA/<br>-12V@30mA | SW4-1                        |
| C4TU5011780T | 0.5-1                 | 1.7                      | 80                  | 1.5              | 100                            | 0.2       | *                       | *                            |
| C4TU5042060Y | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                       | 52x26x12                     |
| C4T01021480T | 1-2                   | 1.4                      | 80                  | 1.5              | 50                             | 0.2       | *                       | *                            |
| C4T02042260T | 2-4                   | 2.2                      | 60                  | 1.6              | 50                             | 0.2       | *                       | *                            |
| C4T02082460Y | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                       | 52x26x12                     |
| C4T02183560T | 2-18                  | 3.5                      | 60                  | 2.2              | 50                             | 0.2       | *                       | *                            |
| C4T02183960Y | 2-18                  | 3.9                      | 60                  | 2.2              | 50                             | 0.5       | *                       | 52x26x12                     |
| C4T06123060Y | 6-12                  | 3.0                      | 60                  | 2.0              | 50                             | 1         | *                       | 52x26x12                     |
| C4T06183860Y | 6-18                  | 3.8                      | 60                  | 2.0              | 50                             | 0.5       | *                       | 52x26x12                     |
| C4T08122860T | 8-12                  | 2.8                      | 60                  | 1.5              | 50                             | 0.2       | *                       | *                            |
| C4T12183560T | 12-18                 | 3.5                      | 60                  | 2.0              | 50                             | 0.2       | *                       | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C5T (SP5T): Absorptive

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C5TH1U21670Y | 0.001-0.2             | 1.6                      | 70                  | 1.5              | 1000                           | 1         | *                      | 65x26x12                     |
| C5TV2U51680T | 0.02-0.5              | 1.6                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |



## Pin Diode Switches

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C5TV2011770Y  | 0.02-1                | 1.7                      | 70                  | 1.5              | 100                            | 1         | *                      | 65x26x12                     |
| C5TV2032860Y  | 0.02-3                | 2.8                      | 60                  | 1.7              | 100                            | 1         | *                      | 65x26x12                     |
| C5TV2032860T  | 0.02-3                | 2.8                      | 60                  | 2.0              | 200                            | 0.2       | *                      | *                            |
| C5TU50111780T | 0.5-1                 | 1.7                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C5TU5042060Y  | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                      | 65x26x12                     |
| C5T01021580T  | 1-2                   | 1.5                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C5T02042360T  | 2-4                   | 2.3                      | 60                  | 1.6              | 50                             | 0.2       | *                      | *                            |
| C5T02082460Y  | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                      | 65x26x12                     |
| C5T02183660T  | 2-18                  | 3.6                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C5T02183960Y  | 2-18                  | 3.9                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 65x26x12                     |
| C5T06123060Y  | 6-12                  | 3.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 65x26x12                     |
| C5T06183860Y  | 6-18                  | 3.8                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 65x26x12                     |
| C5T08122960T  | 8-12                  | 2.9                      | 60                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C5T12183560T  | 12-18                 | 3.5                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C6T (SP6T): Absorptive

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C6TH1U21670Y  | 0.001-0.2             | 1.6                      | 70                  | 1.5              | 1000                           | 1         | *                      | 78x32x12                     |
| C6TV2U51780T  | 0.02-0.5              | 1.7                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C6TV2011770Y  | 0.02-1                | 1.7                      | 70                  | 1.5              | 100                            | 1         | *                      | 78x32x12                     |
| C6TV2032860Y  | 0.02-3                | 2.8                      | 60                  | 1.7              | 100                            | 1         | *                      | 78x32x12                     |
| C6TV2032960T  | 0.02-3                | 2.9                      | 60                  | 2.0              | 200                            | 0.2       | *                      | *                            |
| C6TU50111880T | 0.5-1                 | 1.8                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C6TU5042060Y  | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                      | 78x32x12                     |
| C6T01021680T  | 1-2                   | 1.6                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C6T02042460T  | 2-4                   | 2.4                      | 60                  | 1.7              | 50                             | 0.2       | *                      | *                            |
| C6T02082460Y  | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                      | 78x32x12                     |
| C6T02183860T  | 2-18                  | 3.8                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C6T02184160Y  | 2-18                  | 4.1                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 78x32x12                     |
| C6T06123060Y  | 6-12                  | 3.0                      | 60                  | 2.0              | 50                             | 1         | *                      | 78x32x12                     |
| C6T06184160Y  | 6-18                  | 4.1                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 78x32x12                     |
| C6T08123060T  | 8-12                  | 3.0                      | 60                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C6T12183860T  | 12-18                 | 3.8                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE



## Pin Diode Switches

\* CONSULT THE FACTORY

### C7T (SP7T): Absorptive

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C7TH1U21870Y | 0.001-0.2             | 1.8                      | 70                  | 1.5              | 1000                           | 1         | *                      | 105x42x12                    |
| C7TV2U51880T | 0.02-0.5              | 1.8                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C7TV2011970Y | 0.02-1                | 1.9                      | 70                  | 1.5              | 100                            | 1         | *                      | 105x42x12                    |
| C7TV2033060Y | 0.02-3                | 3.0                      | 60                  | 1.7              | 100                            | 1         | *                      | 105x42x12                    |
| C7TV2033060T | 0.02-3                | 3.0                      | 60                  | 2.0              | 200                            | 0.2       | *                      | *                            |
| C7TU5011980T | 0.5-1                 | 1.9                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C7TU5042060Y | 0.5-4                 | 2.0                      | 60                  | 1.5              | 50                             | 1         | *                      | 105x42x12                    |
| C7T01021680T | 1-2                   | 1.6                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C7T02042460T | 2-4                   | 2.4                      | 60                  | 1.8              | 50                             | 0.2       | *                      | *                            |
| C7T02082460Y | 2-8                   | 2.4                      | 60                  | 2.0              | 50                             | 1         | *                      | 105x42x12                    |
| C7T02184260T | 2-18                  | 4.2                      | 60                  | 2.2              | 50                             | 0.2       | *                      | *                            |
| C7T02184460Y | 2-18                  | 4.4                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 105x42x12                    |
| C7T06123660Y | 6-12                  | 3.6                      | 60                  | 2.0              | 50                             | 1         | *                      | 105x42x12                    |
| C7T06184460Y | 6-18                  | 4.4                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 105x42x12                    |
| C7T08123160T | 8-12                  | 3.1                      | 60                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C7T12184060T | 12-18                 | 4.0                      | 60                  | 2.0              | 50                             | 0.2       | *                      | *                            |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C8T (SP8T): Absorptive

| Model Number  | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|---------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C8TDC060664TY | DC-6                  | 3.0                      | 50 typ.             | 2:1              | *                              | *         | *                      | *                            |
| C8TH1U21970Y  | 0.001-0.2             | 1.9                      | 70                  | 1.5              | 1000                           | 1         | *                      | 110x42x16                    |
| C8TV2U51980T  | 0.02-0.5              | 1.9                      | 80                  | 1.5              | 100-500                        | 0.2-1     | *                      | *                            |
| C8TV2012070Y  | 0.02-1                | 2.0                      | 70                  | 1.5              | 100                            | 1         | *                      | 110x42x16                    |
| C8TV2033260Y  | 0.02-3                | 3.2                      | 60                  | 1.7              | 100                            | 1         | *                      | 110x42x16                    |
| C8TV2033260T  | 0.02-3                | 3.2                      | 60                  | 2.0              | 200                            | 0.2       | *                      | *                            |
| C8TU5012080T  | 0.5-1                 | 2.0                      | 80                  | 1.5              | 100                            | 0.2       | *                      | *                            |
| C8TU5042960Y  | 0.5-4                 | 2.9                      | 60                  | 1.5              | 50                             | 1         | *                      | 110x42x16                    |
| C8T01021780T  | 1-2                   | 1.7                      | 80                  | 1.5              | 50                             | 0.2       | *                      | *                            |
| C8T02042560T  | 2-4                   | 2.5                      | 60                  | 1.8              | 50                             | 0.2       | *                      | *                            |



## Pin Diode Switches

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ. | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|------------------------|------------------------------|
| C8T02083360Y | 2-8                   | 3.3                      | 60                  | 2.0              | 50                             | 1         | *                      | 110x42x16                    |
| C8T02184860Y | 2-18                  | 4.8                      | 60                  | 2.2              | 50                             | 0.5       | *                      | 110x42x16                    |
| C8T06123960Y | 6-12                  | 3.9                      | 60                  | 2.0              | 50                             | 1         | *                      | 110x42x16                    |
| C8T06184860Y | 6-18                  | 4.8                      | 60                  | 2.0              | 50                             | 0.5       | *                      | 110x42x16                    |

OTHER FREQUENCIES AND DIVIDERS ARE ALSO AVAILABLE

\* CONSULT THE FACTORY

### C10T (SP10T): Absorptive

| Model Number | Frequency Range (GHz) | Insertion Loss (dB) Typ. | Isolation (dB) Min. | VSWR In/Out Max. | SW speed Turn on/off (ns) Max. | Power (W) | Current@ VDC (mA) Typ.  | Case Type or DIMENSIONS (mm) |
|--------------|-----------------------|--------------------------|---------------------|------------------|--------------------------------|-----------|-------------------------|------------------------------|
| C10TV7147080 | 0.07-14.5             | 7.0 Max                  | 80                  | 2.0              | 50                             | 0.2       | +5V@320mA/<br>-12V@40mA | SW10                         |
| C10T08185070 | 8-18                  | 5.0                      | 70                  | 1.8              | 50                             | 0.2       | +5V@320mA/<br>-12V@40mA | SW10                         |

| Waveguide Band                    | K          | Ka         | Q        | U        | V        | E        | W         |     |
|-----------------------------------|------------|------------|----------|----------|----------|----------|-----------|-----|
| Waveguide Size                    | WR-42      | WR-28      | WR-22    | WR-19    | WR-15    | WR-12    | WR-10     |     |
| Frequency Range (GHz)             | 18 to 26.5 | 26.5 to 40 | 33 to 50 | 40 to 60 | 50 to 75 | 60 to 90 | 75 to 110 |     |
| Maximum Available Bandwidth (GHz) | Full       | Full       | 10       | 10       | 10       | 10       | 10        |     |
| Isolation (dB, Min)               | 20         |            |          |          |          |          |           |     |
| Insertion Loss (dB, Typ)          | C1T        | 1.2        | 1.5      | 1.8      | 2.0      | 2.2      | 2.3       | 2.5 |
|                                   | C2T        | 1.8        | 2.0      | 2.2      | 2.4      | 2.6      | 2.8       | 3.0 |

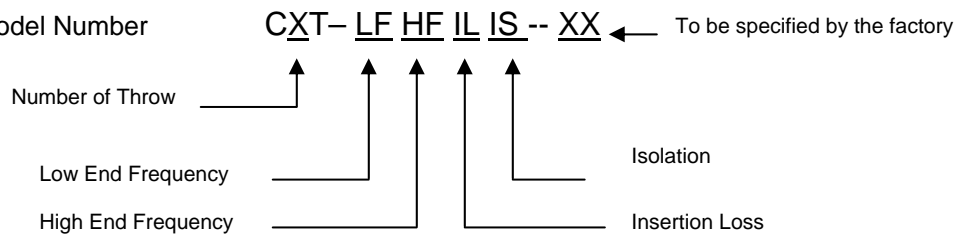
| Operating Specifications |                                  |
|--------------------------|----------------------------------|
| Control Input            | TTL                              |
| DC power                 | +5/-12 Vdc                       |
| With Driver              | +100/-10mA                       |
| Operating Temperature    | 0°C to +60°C                     |
| Storage Temperature      | -55°C to +125°C                  |
| VSWR                     | 2:1 Typical (Low Loss Condition) |
| Switch Speed (nS)        | 100-250                          |

## Pin Diode Switches

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### HOW TO ORDER:

Specify Model Number



**Example:** To order C2T pin diode switch with a frequency range of 24-43Ghz, insertion loss 2db, and an isolation of 36db, specify C2T-24430236-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE