

## Narrowband Coaxial Isolators and Circulators

### FEATURES:

- ❖ Low Cost, High Quality
- ❖ Compact Size, Light Weight
- ❖ High Performance
- ❖ Wide Operation Temperature Range
- ❖ Common Radar and Wireless Bands  
Frequency Bands in .08-26.5 GHz range

### APPLICATIONS:

- ❖ Load isolation
- ❖ Module integration



**COI & COC Series**

### SPECIFICATIONS:

#### ISOLATORS:

Model No.	Frequency Range (GHz)	Band Width (MHz)	Insertion Loss (dB) Max	Isolation (dB) Min	VSWR (Max)	Operating Temp. Range (°C)	Power (W)	Size LXWXH (mm)	Connect or Type
*COIU1U20616G-XX	0.15-0.2	8	0.6	16	1.40	0-+60	10	70X70X22	SMA-N
*COIU1U20616G1-XX	0.15-0.2	8	0.6	16	1.40	0-+60	100	70X97X22	SMA-N
*COIU2U20518G-XX	0.2-0.25	20	0.5	18	1.30	0-+60	100	50.5X53X22	SMA-N
*COIU2U20518G1-XX	0.2-0.25	20	0.5	18	1.30	0-+60	100	50.5X80X22	SMA-N
*COIU3U40325G-XX	0.3-0.4	30	0.3	25	1.20	-15-+60	10	52X57.5X22	SMA/N
*COIU3U40325GH-XX	0.3-0.4	30	0.3	25	1.20	-15-+60	100	52X84.5X22	SMA/N
*COIU3U50550G-XX	0.3-0.5	30	0.5	50	1.20	-15-+60	100	104X57.5X22	SMA/N
COIU4U40323G	0.45-0.47	-	0.30	23	1.20	-40-+85	150	CA08	SMA
COIU4U40323G1	0.45-0.47	-	0.30	23	1.20	-40-+85	150	CA09	SMA
*COIU4U60325GH-XX	0.4-0.6	30	0.3	25	1.20	-15-+60	10	44X49.5X21	SMA/N
*COIU4U60325G1-XX	0.4-0.6	30	0.3	25	1.20	-15-+60	100	44X76.5X21	SMA/N
*COIU4U60325G2-XX	0.4-0.6	10	0.3	25	1.20	-15-+60	10	35X38X20	SMA
*COIU4U60325G3-XX	0.4-0.6	10	0.3	25	1.20	-15-+60	10	38.1X38.1X15	SMA
COIU6U80420G	0.69-0.80	-	0.40	20	1.25	-40-+85	150	CA08	SMA
COIU6U80420G1	0.69-0.80	-	0.40	20	1.25	-40-+85	150	CA09	SMA
*COIU6010325G-XX	0.6-1.0	30	0.3	25	1.20	-30-+70	10	35X38X20	SMA/N
*COIU6010325G1-XX	0.6-1.0	30	0.3	25	1.20	-30-+70	10	38.1X38.1X15	SMA
*COIU6010420G-XX	0.6-1.0	200	0.4	20	1.25	-30-+70	10	35X38X20	SMA/N
*COIU6010420G1-XX	0.6-1.0	200	0.4	20	1.25	-30-+70	10	38.1X38.1X15	SMA



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*COIU8U80325G	0.82-0.84	-	0.3	25	1.20	-40+85	100	CA01	SMA
*COIU8U80325G1	0.82-0.84	-	0.3	25	1.20	-40+85	100	CA02	SMA
*COIU8U80325G2	0.82-0.84	-	0.3	25	1.20	-40+85	150	CA03	SMA
*COIU8U80325G3	0.86-0.89	-	0.3	25	1.20	-40+85	100	CA01	SMA
*COIU8U80325G4	0.86-0.89	-	0.3	25	1.20	-40+85	100	CA02	SMA
*COIU8U80325G5	0.86-0.89	-	0.3	25	1.20	-40+85	150	CA03	SMA
*COIU8U90325G	0.89-0.91	-	0.3	25	1.20	-40+85	100	CA01	SMA
*COIU8U90325G1	0.89-0.91	-	0.3	25	1.20	-40+85	100	CA02	SMA
*COIU8U90325G2	0.89-0.91	-	0.3	25	1.20	-40+85	150	CA03	SMA
*COIU8010325G-XX	0.8-1.2	70	0.3	25	1.20	-30+70	10	30X33X20	SMA/N
*COIU8010325G1-XX	0.8-1.2	70	0.3	25	1.20	-30+70	10	30X33X15	SMA
*COIU8010420G-XX	0.8-1.2	200	0.4	20	1.25	-30+70	10	30X33X20	SMA/N
*COIU8010320GH-XX	0.8-1.2	70	0.3	25	1.20	-30+70	100	30X43X20	SMA/N
*COIU8010420GH1-XX	0.8-1.2	200	0.4	20	1.25	-30+70	100	30X43X20	SMA/N
*COIU8010650G-XX	0.8-1.2	70	0.6	50	1.20	-30+70	100	60X33X20	SMA
*COIU8010420G1-XX	0.8-1.2	200	0.4	20	1.25	-30+70	10	30x33x15	SMA
*COIU9U90325G	0.93-0.96	-	0.3	25	1.20	-40+85	100	CA01	SMA
*COIU9U90325G1	0.93-0.96	-	0.3	25	1.20	-40+85	100	CA02	SMA
*COIU9U90325G2	0.93-0.96	-	0.3	25	1.20	-40+85	150	CA03	SMA
*COI01020325G-XX	1.2-2.7	70	0.3	25	1.20	-30+70	10	25.4X28.5X20	SMA/N
*COI01020325G1-XX	1.2-2.7	70	0.3	25	1.20	-30+70	10	25.4X28.5X15	SMA
*COI01020325G2-XX	1.2-2.7	70	0.3	25	1.20	-30+70	100	25.4X38.5X20	SMA/N
*COI01020420G-XX	1.2-2.7	200	0.4	20	1.25	-30+70	10	25.4X28.5X20	SMA/N
*COI01020420G1-XX	1.2-2.7	200	0.4	20	1.25	-30+70	100	25.4X38.5X20	SMA/N
*COI01020420G2-XX	1.2-2.7	200	0.4	20	1.25	-30+70	100	25.4X28.5X15	SMA
*COI01020650G-XX	1.2-2.7	70	0.6	50	1.20	-30+70	10	50.8X28.5X20	SMA/N
*COI01020850G-XX	1.2-2.7	200	0.8	40	1.25	-30+70	10	50.8X28.5X20	SMA/N
*COI01020325G3-XX	1.5-2.5	70	0.3	25	1.20	-30+70	10	20X25.4X15	SMA
*COI01010325G	1.71-1.78	-	0.3	25	1.20	-40+85	100	CA04	SMA
*COI01010325G1	1.71-1.78	-	0.3	25	1.20	-40+85	100	CA05	SMA
*COI01010325G2	1.71-1.78	-	0.3	25	1.20	-40+85	150	CA06	SMA



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*COI01010325G3	1.75-1.78	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI01010325G4	1.75-1.78	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI01010325G5	1.75-1.78	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI01010325G6	1.80-1.88	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI01010325G7	1.80-1.88	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI01010325G8	1.80-1.88	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI01030325G1-XX	1.8-3.0	200	0.3	25	1.20	-30-+70	10	28X30X19	SMA/N
*COI01030423G-XX	1.8-3.0	400	0.4	23	1.20	-30-+70	10	28X30X19	SMA/N
*COI01030325G2-XX	1.8-3.5	200	0.3	25	1.20	-30-+70	10	25X25X15	SMA
*COI01030420G-XX	1.8-3.5	400	0.4	20	1.20	-30-+70	10	25X25X15	SMA
*COI01010325G9	1.85-1.88	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI01010325G10	1.85-1.88	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI01010325G11	1.85-1.88	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI01010325G12	1.85-1.91	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI01010325G13	1.85-1.91	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI01010325G14	1.85-1.91	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI01010325G15	1.88-1.92	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI01010325G16	1.88-1.92	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI01010325G17	1.88-1.92	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI01010325G18	1.92-1.98	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI01010325G19	1.92-1.98	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI01010325G20	1.92-1.98	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI01010325G21	1.93-1.99	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI01010325G22	1.93-1.99	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI01010325G23	1.93-1.99	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI02020325G	2.01-2.02	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI02020325G1	2.01-2.02	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI02020325G2	2.01-2.02	-	0.3	25	1.20	-40-+85	150	CA06	SMA
*COI02020325G3	2.11-2.17	-	0.3	25	1.20	-40-+85	100	CA04	SMA
*COI02020325G4	2.11-2.17	-	0.3	25	1.20	-40-+85	100	CA05	SMA
*COI02020325G5	2.11-2.17	-	0.3	25	1.20	-40-+85	150	CA06	SMA



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*COI02020323G	2.30-2.40	-	0.3	23	1.20	-40-+85	100	CA04	SMA
*COI02020323G1	2.30-2.40	-	0.3	23	1.20	-40-+85	100	CA05	SMA
*COI02020323G2	2.30-2.40	-	0.3	23	1.20	-40-+85	150	CA06	SMA
*COI03030323G	3.4-3.6	-	0.30	23	1.20	-40-+85	30	CA07	SMA
*COI03060325G-XX	3.5-6.5	300	0.3	25	1.20	-40-+75	10	16X26X15	SMA
*COI03060423G-XX	3.5-6.5	600	0.4	23	1.20	-40-+75	10	16X26X15	SMA
*COI03060325G2-XX	3.5-6.5	300	0.3	25	1.20	-40-+75	10	16X26X19	N
*COI03060423G2-XX	3.5-6.5	600	0.4	23	1.20	-40-+75	10	16X26X19	N
*COI03060650G-XX	3.5-6.5	300	0.6	50	1.20	-40-+75	10	32X26X13	SMA
*COI03060845G-XX	3.5-6.5	600	0.8	45	1.20	-40-+75	10	32X26X13	SMA
*COI03060650G1-XX	3.5-6.5	300	0.6	50	1.20	-40-+75	10	32X26X19	N
*COI03060845G1-XX	3.5-6.5	600	0.8	45	1.20	-40-+75	10	32X26X19	N
*COI07180325G-XX	7.0-18	500	0.3	25	1.20	-40-+75	10	12X20X13	SMA
*COI07180423G-XX	7.0-18	1000	0.4	23	1.20	-40-+75	10	12X20X13	SMA
*COI07180550G-XX	7.0-18	500	0.5	50	1.20	-40-+75	10	24X20X13	SMA
*COI08100423G	8.7-10.4	-	0.4	23	1.20	-40-+85	10	CA10	SMA
*COI10100323G	10.1-10.7	-	0.3	23	1.20	-40-+85	10	CA10	SMA
*COI11120423G	11.0-12.0	-	0.4	23	1.20	-40-+85	10	CA10	SMA
*COI12130323G	12.75-13.25	-	0.3	23	1.20	-40-+85	10	CA10	SMA
*COI14150420G	14.25-15.35	-	0.4	20	1.25	-40-+85	10	CA10	SMA
*COI16180520G	16.8-18.0	-	0.5	20	1.30	-40-+85	10	CA10	SMA
*COI17190520G	17.7-19.7	-	0.5	20	1.30	-40-+85	10	CA10	SMA
*COI20300620D	20.0-30.0	-	0.7	18	1.40	-20+65	30	17.78X12.7X12.7	K-F
*COI23240620G	23.5-24.5	-	0.6	20	1.35	-40-+85	10	CA11	SMA

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

\*THE SPECIFICATIONS FOR THESE MODELS ARE ONLY FOR THE SPECIFIED FREQUENCY BW.

### CIRCULATORS:

Model No.	Frequency Range (GHz)	Band Width (MHz)	Insertion Loss (dB) Max	Isolation (dB) Min	VSWR (Max)	Operating Temp. Range (°C)	Power (W)	Size LXWXH (mm)	Connector Type
*COCU3U40325G-XX	0.3-0.4	30	0.3	25	1.20	-15-+60	150	52X58X22	SMA/N
*COCU4U60323G-XX	0.4-0.6	10	0.3	23	1.20	-15-+60	150	35X38X20	SMA/N



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*COCU4U60325G-XX	0.4-0.6	30	0.3	25	1.20	-15--+60	150	44X49.5X21	SMA/N
*COCU4U60325G1-XX	0.4-0.6	10	0.3	25	1.20	-15--+60	150	38.1X38.1X15	SMA
*COCU4U40323G	0.45-0.47	-	0.3	23	1.20	-40--+85	100	CC06	SMA
*COCU6U80420G	0.69-0.80	-	0.4	20	1.25	-40--+85	100	CC06	SMA
*COCU6010323G-XX	0.6-1.0	30	0.3	23	1.20	-30--+70	150	35X38X20	SMA/N
*COCU6010325G-XX	0.6-1.0	30	0.3	25	1.20	-30--+70	150	38.1X38.1X15	SMA
*COCU6010420G-XX	0.6-1.0	200	0.4	20	1.25	-30--+70	150	38.1X38.1X15	SMA
*COCU8U80325G	0.82-0.84	-	0.3	25	1.20	-40--+85	100	CC01	SMA
*COCU8U80325G1	0.82-0.84	-	0.3	25	1.20	-40--+85	100	CC02	SMA
*COCU8U80325G2	0.86-0.89	-	0.3	25	1.20	-40--+85	100	CC01	SMA
*COCU8U80325G3	0.86-0.89	-	0.3	25	1.20	-40--+85	100	CC02	SMA
*COCU8U90325G	0.89-0.91	-	0.3	25	1.20	-40--+85	100	CC01	SMA
*COCU8U90325G1	0.89-0.91	-	0.3	25	1.20	-40--+85	100	CC02	SMA
*COCU9U90325G	0.93-0.96	-	0.3	25	1.20	-40--+85	100	CC01	SMA
*COCU9U90325G1	0.93-0.96	-	0.3	25	1.20	-40--+85	100	CC02	SMA
*COCU8010323G-XX	0.8-1.2	70	0.3	23	1.20	-30--+70	100	30X33X20	SMA/N
*COCU8010520G-XX	0.8-1.2	200	0.5	20	1.25	-30--+70	100	30X33X20	SMA/N
*COCU8010323G1-XX	0.8-1.2	70	0.3	23	1.20	-30--+70	100	30X33X15	SMA
*COCU8010520G-XX	0.8-1.2	200	0.5	20	1.25	-30--+70	100	30X33X15	SMA
*COC01020323G-XX	1.2-2.7	70	0.3	23	1.20	-30--+70	100	25.4X28.5X20	SMA/N
*COC01020420G1-XX	1.2-2.7	200	0.4	20	1.25	-30--+70	100	25.4X28.5X20	SMA/N
*COC01020323G1-XX	1.2-2.7	70	0.3	23	1.20	-30--+70	100	25.4X28.5X15	SMA
*COC01020420G2-XX	1.2-2.7	200	0.4	20	1.25	-30--+70	100	25.4X28.5X15	SMA
*COC01020645G-XX	1.2-2.7	70	0.6	45	1.20	-30--+70	100	50.8X28.5X20	SMA/N
*COC01020840G-XX	1.2-2.7	200	0.8	40	1.25	-30--+70	100	50.8X28.5X20	SMA/N
*COC01020323G-XX	1.5-2.5	70	0.3	23	1.20	-30--+70	30	20X25.4X15	SMA
*COC01010323G1	1.70-1.78	-	0.3	23	1.20	-40--+85	100	CC03	SMA
*COC01010323G2	1.70-1.78	-	0.3	23	1.20	-40--+85	100	CC04	SMA
*COC01010325G	1.75-1.78	-	0.3	25	1.20	-40--+85	100	CC03	SMA
*COC01010325G1	1.75-1.78	-	0.3	25	1.20	-40--+85	100	CC04	SMA
*COC01010325G2	1.85-1.88	-	0.3	25	1.20	-40--+85	100	CC03	SMA



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*COC01010325G3	1.85-1.88	-	0.3	25	1.20	-40+85	100	CC04	SMA
*COC01010323G4	1.85-1.91	-	0.3	23	1.20	-40+85	100	CC03	SMA
*COC01010323G5	1.85-1.91	-	0.3	23	1.20	-40+85	100	CC04	SMA
*COC01010325G4	1.88-1.92	-	0.3	25	1.20	-40+85	100	CC03	SMA
*COC01010325G5	1.88-1.92	-	0.3	25	1.20	-40+85	100	CC04	SMA
*COC01010323G8	1.92-1.98	-	0.3	23	1.20	-40+85	100	CC03	SMA
*COC01010323G9	1.92-1.98	-	0.3	23	1.20	-40+85	100	CC04	SMA
*COC01010323G6	1.93-1.99	-	0.3	23	1.20	-40+85	100	CC03	SMA
*COC01010323G7	1.93-1.99	-	0.3	23	1.20	-40+85	100	CC04	SMA
*COC02020325G	2.01-2.02	-	0.3	25	1.20	-40+85	100	CC03	SMA
*COC02020325G1	2.01-2.02	-	0.3	25	1.20	-40+85	100	CC04	SMA
*COC02030323G-XX	2.0-3.5	200	0.3	23	1.20	-30+70	20	25X25X15	SMA
*COC02030420G-XX	2.0-3.5	400	0.4	20	1.20	-30+70	20	25X25X15	SMA
*COC02020323G	2.11-2.17	-	0.3	23	1.20	-40+85	100	CC03	SMA
*COC02020323G1	2.11-2.17	-	0.3	23	1.20	-40+85	100	CC04	SMA
*COC02020323G2	2.3-2.4	-	0.3	23	1.20	-40+85	100	CC03	SMA
*COC02020323G3	2.3-2.4	-	0.3	23	1.20	-40+85	100	CC04	SMA
*COC03030323G	3.4-3.6	-	0.3	23	1.20	-40+85	50	CC05	SMA
*COC03030323G1	3.4-3.6	-	0.3	23	1.20	-40+85	100	CC05	SMA
*COC03060323G-XX	3.5-6.5	300	0.3	23	1.20	-40+75	20	16X21X14	SMA
*COC03060420G-XX	3.5-6.5	600	0.4	20	1.20	-40+75	20	16X21X14	SMA
*COC03060650G-XX	3.5-6.5	300	0.6	50	1.20	-40+75	20	32X21X14	SMA
*COC03060323G1-XX	3.5-6.5	300	0.3	23	1.20	-40+75	20	20X24X18	SMA/N
*COC03060420G1-XX	3.5-6.5	600	0.4	20	1.20	-40+75	20	20X24X18	SMA/N
*COC06180323G-XX	6.5-18	300	0.3	23	1.20	-40+75	10	15X19X13	SMA
*COC06180420G-XX	6.5-18	1000	0.4	20	1.20	-40+75	10	15X19X13	SMA
*COC08100420G	8.7-10.4	-	0.4	20	1.25	-40+85	10	CC07	SMA
*COC10100323G	10.1-10.7	-	0.3	23	1.20	-40+85	10	CC07	SMA
*COC11120423G	11.0-12.0	-	0.4	23	1.20	-40+85	10	CC07	SMA
*COC12130323G	12.75-13.25	-	0.3	23	1.20	-40+85	10	CC07	SMA
*COC14150420G	14.25-15.35	-	0.4	20	1.25	-40+85	10	CC07	SMA

## Narrowband Coaxial Isolators and Circulators

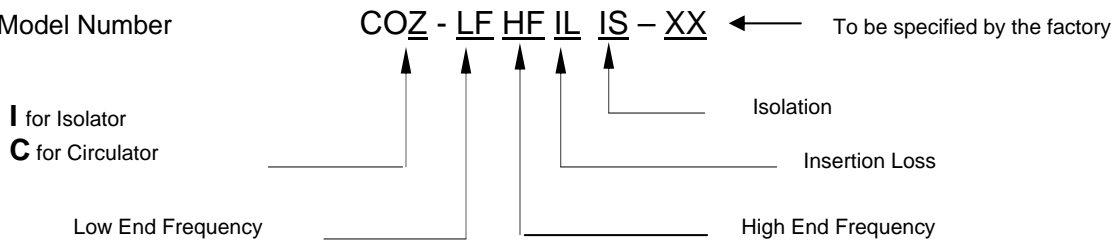
Model No.	Frequency Range (GHz)	Band Width (MHz)	Insert.Loss (dB) Max	Isolation (dB) Min	VSWR (Max)	Operating Temp. Range (°C)	Power (W)	Size LXWXH (mm)	Connector Type
*COC16180520G	16.8-18.0	-	0.5	20	1.30	-40+85	10	CC07	SMA
*COC17190618G	17.7-19.7	-	0.6	18	1.30	-40+85	10	CC07	SMA
*COC18250618G-XX	18-25	1000	0.6	18	1.35	-40+75	10	12X15X11	SMA
*COC23240618G	23.5-24.5	-	0.6	18	1.35	-40+85	10	CC08	SMA

OTHER FREQUENCY BANDS ARE ALSO AVAILABLE.

\*THE SPECIFICATIONS FOR THESE MODELS ARE ONLY FOR THE SPECIFIED FREQUENCY BW.

### HOW TO ORDER CUSTOM PARTS:

Specify Model Number



**Example:** To order a 1.8-2.0 GHz isolator with 0.3 dB maximum insertion loss and 20 dB minimum isolation and, specify COI-01020320-XX.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE

