

Limiters

FEATURES:

- ❖ Coverage From 0.1 to 65.0 GHz (Octave/Multioctave)
- ❖ Up to 2 Watt CW and 150W Peak (1 µsec) Power Handling Capability
- ❖ Fast Response and Short Recovery Time (10 to 20 µsec typical)
- ❖ Compact/Rugged Thin-Film Construction
- ❖ Economically Priced

APPLICATIONS:

- ❖ Test Set Up
- ❖ Receiver Protection
- ❖ Power Levelling



CLM Series

DESCRIPTION:

Cernex's **CLM series** limiters are designed for use in a wide range of general purpose applications such as laboratory test equipment, instrumentation and other applications. Reliable operation is achieved using rugged stripline circuit construction.

SPECIFICATIONS:

Model Number	Frequency Range (GHz)	Insertion Loss (dB) Typ.	VSWR Max	Typ LIM Threshold (dBm)	Max Leakage @ 1W CW Input (dBm)	Connectors	Case Type
CLMU1U504	0.1-0.5	0.4	1.3:1	+6	+14	SMA-M/SMA-F	HN1
CLMU10105	0.1-1.0	0.5	1.4:1	+6	+14	SMA-M/SMA-F	HN1
CLMU10206	0.1-2.0	0.6	1.4:1	+6	+14	SMA-M/SMA-F	HN1
CLMU10408	0.1-4.0	0.8	1.5:1	+6	+14	SMA-M/SMA-F	HN1
CLMU11217	0.1-12.0	1.7	1.6:1	+6	+14	SMA-M/SMA-F	HN1
CLMU11822	0.1-18.0	2.2**	2.0:1	+6	+14	SMA-M/SMA-F	HN1
CLMU50104	0.5-1.0	0.4	1.3:1	+9	+20	SMA-M/SMA-F	HN1
CLMU50105	0.5-1.0	0.5	1.4:1	+6	+14	SMA-M/SMA-F	HN1
CLMU50205	0.5-2.0	0.5	1.3:1	+9	+20	SMA-M/SMA-F	HN1
CLMU50206	0.5-2.0	0.6	1.4:1	+6	+14	SMA-M/SMA-F	HN1
CLMU50407	0.5-4.0	0.7	1.4:1	+6	+14	SMA-M/SMA-F	HN1
CLMU50612	0.5-6.0	1.2	1.5:1	+6	+14	SMA-M/SMA-F	HN1
CLMU51216	0.5-12.0	1.6	1.6:1	+6	+14	SMA-M/SMA-F	HN1
CLMU51818	0.5-18.0	1.8**	2.0:1	+9	+20	SMA-M/SMA-F	HN1
CLMU51820	0.5-18.0	2.0**	2.0:1	+6	+14	SMA-M/SMA-F	HN1
CLM010204	1.0-2.0	0.4	1.3:1	+9	+19	SMA-M/SMA-F	HN1
CLM010206	1.0-2.0	0.6	1.4:1	+6	+14	SMA-M/SMA-F	HN1
CLM010612	1.0-6.0	1.2	1.5:1	+6	+14	SMA-M/SMA-F	HN1
CLM011216	1.0-12.0	1.6	1.6:1	+6	+14	SMA-M/SMA-F	HN1



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CLM011818	1.0-18.0	1.8	2.0:1	+9	+20	SMA-M/SMA-F	HN1
CLM011820	1.0-18.0	2.0	2.0:1	+6	+14	SMA-M/SMA-F	HN1
CLM020407	2.0-4.0	0.7	1.4:1	+6	+14	SMA-M/SMA-F	HN1
CLM020405	2.0-4.0	0.5	1.4:1	+9	+19	SMA-M/SMA-F	HN1
CLM020612	2.0-6.0	1.2	1.5:1	+6	+14	SMA-M/SMA-F	HN1
CLM020812	2.0-8.0	1.2	1.5:1	+9	+19	SMA-M/SMA-F	HN1
CLM020813	2.0-8.0	1.3	1.6:1	+6	+14	SMA-M/SMA-F	HN1
CLM021818	2.0-18.0	1.8	2.0:1	+9	+20	SMA-M/SMA-F	HN1
CLM021820	2.0-18.0	2.0	2.0:1	+6	+14	SMA-M/SMA-F	HN1
CLM040812	4.0-8.0	1.2	1.5:1	+9	+19	SMA-M/SMA-F	HN1
CLM040813	4.0-8.0	1.3	1.5:1	+6	+13	SMA-M/SMA-F	HN1
CLM061820	6.0-18.0	2.0	2.0:1	+6	+13	SMA-M/SMA-F	HN1
CLM071215	7.0-12.0	1.5	1.6:1	+9	+19	SMA-M/SMA-F	HN1
CLM071216	7.0-12.0	1.6	1.6:1	+6	+13	SMA-M/SMA-F	HN1
CLM070712	7.1-7.4	1.2	1.5:1	+9	+9	SMA-M/SMA-F	HN1A
CLM081616	8.0-16.0	1.6	1.8:1	+9	+19	SMA-M/SMA-F	HN1
CLM081618	8.0-16.0	1.8	1.8:1	+6	+13	SMA-M/SMA-F	HN1
CLM081818	8.0-18.0	1.8	2.0:1	+9	+19	SMA-M/SMA-F	HN1
CLM081820	8.0-18.0	2.0	2.0:1	+6	+13	SMA-M/SMA-F	HN1
CLM111818	11.0-18.0	1.8	2.0:1	+9	+19	SMA-M/SMA-F	HN1
CLM111820	11.0-18.0	2.0	2.0:1	+6	+13	SMA-M/SMA-F	HN1
CLM184045	18-40	4.5	3:1	+6	13@25 deg C	2.92mm-M/2.9mm-F	HN1B
CLM264030	26-40	3.0 Typ	2:1	+6	13@25 deg C	2.92mm-M/2.9mm-F	HN1B
CLM343630	34-36	3.0 Typ	-	+6	13@25 deg C	2.92mm-M/2.9mm-F	HN1B
CLM353835	35-38	3.5 Max	2:1	+6	13@25 deg C	2.92mm-M/2.9mm-F	HN1B

Broadband Limiter Modules

Model Number	Frequency Range (GHz)	Insertion Loss (dB Max)	VSWR Max	Survival Peak	Power (Watts) CW	Flat Leakage (mW MAX)	Case Type
CLMU50405	0.5-4.0	0.5	1.5:1	100	3.0	400	*
CLMU50407	0.5-4.0	0.7	1.5:1	200	3.0	200	*
CLMU50408	0.5-4.0	0.8	1.5:1	1000	5.0	200	*
CLM020806	2.0-8.0	0.6	1.7:1	100	2.0	500	*
CLM020807	2.0-8.0	0.7	1.7:1	200	2.0	125	*
CLM020812	2.0-8.0	1.2	1.7:1	1000	3.0	200	*
CLM021820	2.0-18.0	2.0	2.0:1	200	2.0	125	*
CLM021822	2.0-18.0	2.2	2.0:1	600	3.0	200	*
CLM041210	4.0-12.0	1.0	1.8:1	200	2.0	100	*



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CLM041216	4.0-12.0	1.6	1.8:1	800	3.0	200	*
CLM081819	8.0-18.0	1.9	1.9:1	200	2.0	100	*
CLM081822	8.0-18.0	2.2	2.0:1	600	3.0	200	*

*CONSULT THE FACTORY.

** @ MID BAND FREQUENCY

NOTE:ALL BROADBAND LIMITER MODULES REQUIRE AN EXTERNAL D.C. RETURN OF 1.0 OHM OR LESS.

CERNEX RESERVE THE RIGHT TO CHANGE THE SPECIFICATIONS WITHOUT NOTICE.
OTHER FREQUENCY BAND AND POWER LEVELS ARE ALSO AVAILABLE UPON REQUEST