

STANDARD BROADBAND LIMITERS

ML 6710-000 Series

DESCRIPTION

M/A-COM Ltd's standard range of broadband limiters offer multi-octave performance with peak power handling up to 1kW and leakage power down to 100mW. All the devices include internal dc return and dc blocking capacitors at input and output for all package styles. To specify the full part number, including package style and connector configuration please refer to page 210.

SPECIFICATIONS

Frequency Range (GHz)	Max Peak Power (W)	Max CW Power (W)	Max Leakage Power (mW)	Max Recovery Time (ns)	Max Insertion Loss (dB)	Max VSWR	Available Package Styles	Part Number
0.001 - 0.1	25	5	100	500	0.3	1.3	0,2,4,6	ML 6711-1XY
0.1 - 0.5	50	5	100	500	0.4	1.3	0,2,4,6	ML 6712-1XY
	100	2	100	100	0.5	1.4	1,3,5,7,9	ML 6713-1XY
0.5 - 2.0	500	5	150	250	0.6	1.4	1,3,5,7	ML 6713-2XY
	1000	10	200	1000	0.8	1.4	1,3,5,7	ML 6713-3XY
	100	2	100	100	0.9	1.6	0,2,4,6,8	ML 6714-1XY
2.0 - 6.0	500	5	150	250	1.0	1.6	0,2,4,6	ML 6714-2XY
	1000	10	200	1000	1.2	1.6	1,3,5,7	ML 6714-3XY
	100	2	100	100	1.5	1.8	0,2,4,6,8	ML 6715-1XY
6.0 - 12.0	500	5	150	250	1.6	1.8	0,2,4,6	ML 6715-2XY
	1000	10	200	1000	2.0	1.8	0,2,4,6	ML 6715-3XY
	100	2	100	100	2.1	2.0	0,2,4,6,8	ML 6716-1XY
12.0 - 18.0	500	5	150	250	2.3	2.0	0,2,4,6	ML 6716-2XY
	100	2	100	100	2.1	2.0	0,2,4,6,8	ML 6717-1XY
6.0 - 18.0	500	5	150	250	2.3	2.0	0,2,4,6	ML 6717-2XY
	100	2	100	100	2.3	2.0	0,2,4,6,8	ML 6718-1XY
0.5 - 18.0	500	5	150	250	2.5	2.0	0,2,4,6	ML 6718-2XY
	100	2	100	100	4.0	2.5	0,2	ML 6719-1XY
18.0 - 40.0	300	5	150	250	5.0	2.5	0,2	ML 6719-2XY

NOTES:

- (1) Peak power rated at 10us pulse length, 1% duty ratio, 0.001 to 6 GHz
1us pulse length, 1% duty ratio, 6 to 40 GHz
- (2) Spike leakage 20nJ above flat leakage
- (3) Recovery time measured to 3dB of low loss state
- (4) Insertion loss and VSWR measured at -10dBm input power
- (5) 1dB compression point +7dBm min.
- (6) Case operating temperature -55°C to +85°C
- (7) Storage temperature -55°C to +125°C

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