

Switchable Limiters

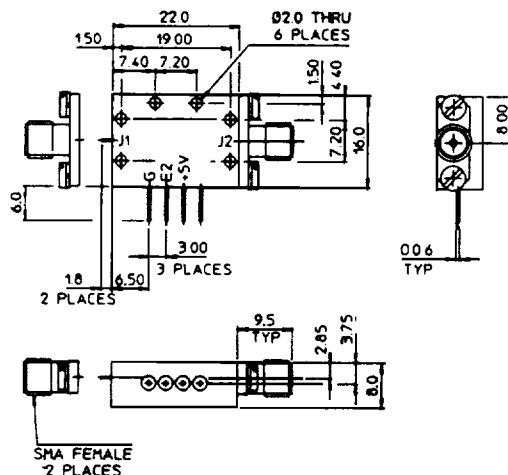
0.5 - 40.0 GHz

ML 6760-000D Series

V3.00

Description

M/A-COM's range of switchable limiters offer multi-octave passive protection combined with a switchable isolation state for active protection and system blanking or calibration. The devices have an integral TTL compatible driver, TTL '0' selects the low loss, passive state, TTL '1' selects the isolation state. The devices survive high power in both states. All the devices include internal dc return and dc blocking capacitors at input and output. All the devices are available in a standard coaxial package. To specify the full part number including connector configuration please refer to ML 6700-000 Series part number specifications sheet.



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	Min Blanking Isolation (dB)	Part Number
0.5 - 2.0	100	2	100	200	0.7	1.4	50	ML 6763-10YD
	500	5	100	500	0.8	1.4	50	ML 6763-20YD
2.0 - 6.0	100	2	100	200	1.1	1.6	55	ML 6764-10YD
	500	5	100	500	1.2	1.6	55	ML 6764-20YD
6.0 - 12.0	100	2	100	200	1.7	1.8	60	ML 6765-10YD
	500	5	100	500	1.8	1.8	60	ML 6765-20YD
12.0 - 18.0	100	2	100	200	2.8	2.0	60	ML 6766-10YD
	500	5	100	500	2.9	2.0	60	ML 6766-20YD
6.0 - 18.0	100	2	100	200	2.9	2.0	60	ML 6767-10YD
	500	5	100	500	3.0	2.0	60	ML 6767-20YD
0.5 - 18.0	100	2	100	200	2.9	2.0	60	ML 6768-10YD
	500	5	100	500	3.0	2.0	60	ML 6768-20YD
18.0 - 40.0	100	2	100	200	5.0	2.5	50	ML 6769-10YD
	300	3	100	500	6.0	2.5	50	ML 6769-20YD

Notes

1. Peak Power rated at 1us pulse length 1% duty ratio
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. Switching speed 100ns measured from 50% TTL to 90% detected RF
7. Power supply +5V @ 50mA typ.
8. Case operating temperature -55°C to +85°C
9. Storage temperature -55°C to +125°C

Specifications Subject to Change Without Notice.

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Each limiter is available with various combinations of SMA male and female connectors. All package RF interfaces have 50 ohm impedance. To define the complete part number for a specific device combine the part number for the required electrical specification from the data sheet with the option numbers for connector configuration (Y) from the table below:

Connector Configuration

Input	Output	Y
Module, Non-Connectorized		0
SMA female	SMA female	1
SMA male	SMA female	2
SMA female	SMA male	3
SMA male	SMA male	4

Example part number: For a standard broadband limiter, frequency 6 to 12 GHz, 100W peak power, with male input, female output the part number would be **ML6765-102D**.

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