

40 Watt CW High Power Limiters With Removable Connectors

2698-Series

Features

- 2.0-18.0 GHz Frequency Coverage
- Low Insertion Loss
- 40 Watts Average Power
- Removable SMA Connectors

Description

M/A-COM's high power limiters will protect sensitive equipment and circuits from high CW power and long pulse width peak power. These limiters are designed to mount as either connectorized or drop-in devices. They exhibit multi-octave performance using M/A-COM's unique Schottky enhanced limiter technology.

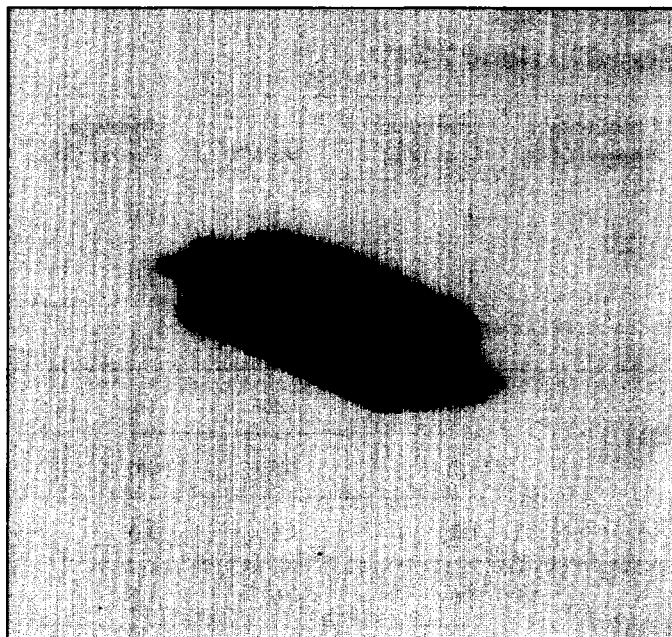
Environmental

These devices are designed to meet the following screening conditions:

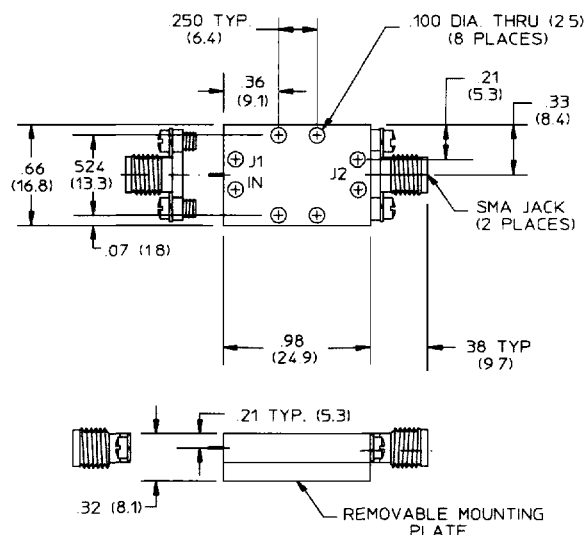
Test		MIL-STD	Method	Cond
Non-Destructive Bond Pull		883	2023	
Internal Visual		883	2017	
Stabilization Bake		883	1008	B
Thermal Cycle		883	1010	B
Constant Acceleration		883	2001	A (YI Axis)
Burn-in		883	1015	125°C
Seal	Fine	883	1014	AI
	Gross	883	1014	CI
External Visual		883	2009	

Maximum Ratings

Storage Temp.	-65°C to +125°C
Operating Temp.	-55°C to +85°C

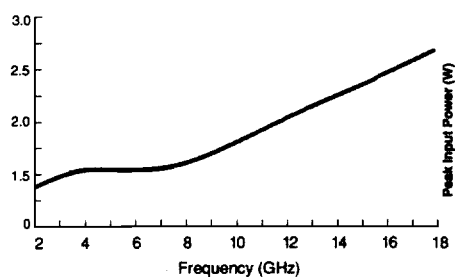


Mechanical Outline

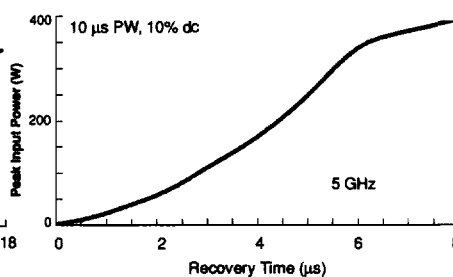


Typical Performance Data 2698-1003

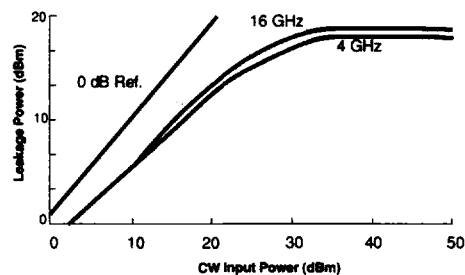
Insertion Loss (dB)



Recovery Time vs. Power



Flat Leakage vs. Power



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Specifications 25°C

Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Average Power (W)	Peak Power (W)	Recovery Time (μS)	Leakage Power (mW)	Part Number
2.0-8.0	1.7	1.7:1	40	400	8.0	100	2698-1001
8.0-18.0	2.7	1.9:1	40	400	8.0	100	2698-1002
2.0-18.0	2.7	2.0:1	40	400	8.0	100	2698-1003

Notes:

1. Insertion loss and VSWR measured at 0 dBm input power.
2. Peak input power rated at 10 microsecond pulse width, 10% duty into 1.5:1 source VSWR and 1.15 load VSWR.
3. Spike leakage energy: 0.5 ergs max.
4. 1 dB compression: +7 dBm min.