Coaxial Limiters
With Removeable Connectors

2691 Series

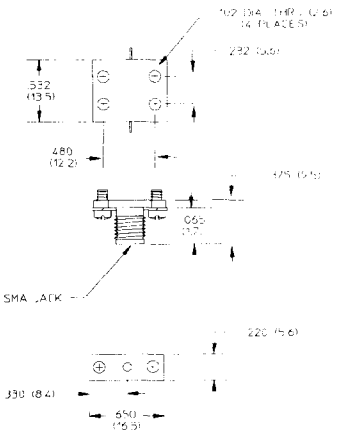
2691-Series

Features

- Broadband Frequency Ranges
- Environmentally Sealed
- Feedback Leveling
- Small Size
- Supplied with RF Connectors (SMA female)

Description

M/A-COM's 2691 series is a line of completely passive solid state receiver protectors. They exhibit octave and multi-octave performance using a unique construction technique involving PIN diodes in broadband microstrip circuits. These limiters may be used as drop-ins in stripline assemblies. In addition, the field-replaceable connectors allow replacement of a damaged connector without violating the hermetic seal. Typical insertion loss and VSWR curves are shown below.



Environmental

These devices are designed to meet the following screening conditions:

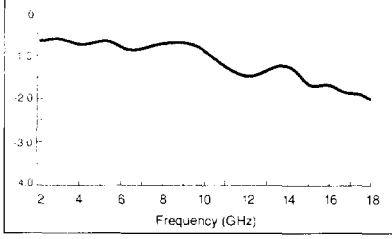
Test	MIL-STD	Method	Cond
Non-Destructive Bond Pull	883	2023	
Internal Visual	883	2017	
Stabilization Bake	883	1008	B
Thermal Cycle	883	1010	B
Constant Acceleration	883	2001	A (Y1 Axis)
Burn-in	883	1015	125°C
Seal Fine	883	1014	A1
Seal Gross	883	1014	C1
External Visual	883	2009	

Maximum Ratings

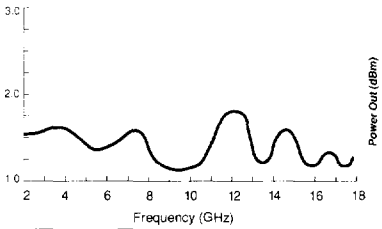
Storage Temp.	-65°C to +125°C
Operating Temp.	-55°C to +85°C

Typical Performance Data 2691-1015

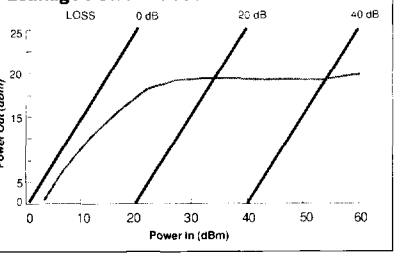
Insertion Loss (dB)



VSWR



Leakage Power at 100 mW



Specifications Subject to Change Without Notice.

Specifications 25°C

Frequency Range (GHz)	Insertion Loss (dB)	VSWR	Average Power (W)	Peak Power (W)	Recovery Time (nS)	Leakage Power (mW)	Part Number
1.0-2.0	0.8	1.5:1	2.0	500	250	75	2691-1002
2.0-8.0	1.1	1.6:1	1.0	100	100	50	2691-1005
	1.3	1.6:1	3.0	1000	1000	100	2691-1007
8.0-18.0	1.8	2.0:1	1.0	100	100	50	2691-1009
2.0-18.0	2.0	2.0:1	1.0	100	100	50	2691-1013
	2.2	2.0:1	2.0	500	250	75	2691-1014
	2.3	2.0:1	3.0	1000	1000	100	2691-1015

Notes:
1. Insertion loss and VSWR measured at 0 dBm input power.
2. Peak input power rated at 1 microsecond pulse width, 1% 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.