

**Features:**

- Wide frequency band operation over 0.1~18GHz
- Power Handling: 4 W CW, 10Watt peak pulse power
- Low insertion loss, good VSWR
- Flat leakage power
- DC blocked, 50 ohm matched at input/output
- SMA F-F, F-M, or M-M connectors
- Operating temperature -40~+85°C, storage temperature -55~+125°C

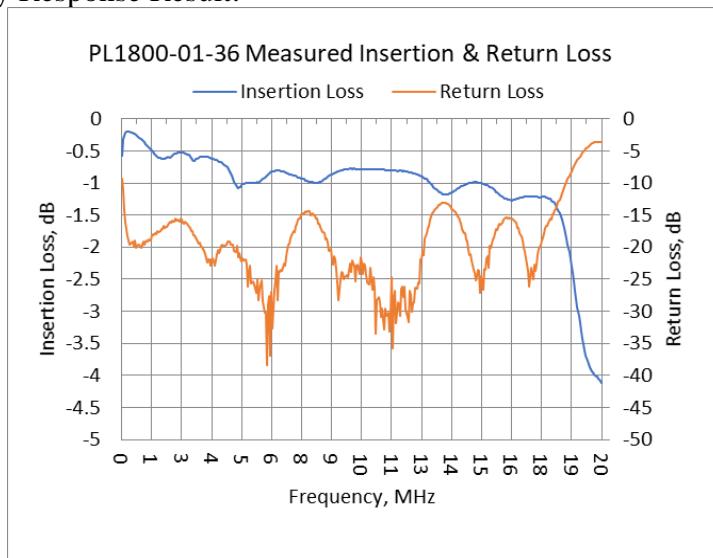
**Description:**

Power limiter PL1800-01-36 is an integrated PIN diode pair power limiter module operating in the frequency range from 0.1 to 18.0GHz with low insertion loss and good VSWR. It is ideal to be used for protecting microwave receivers in radar and communication systems.

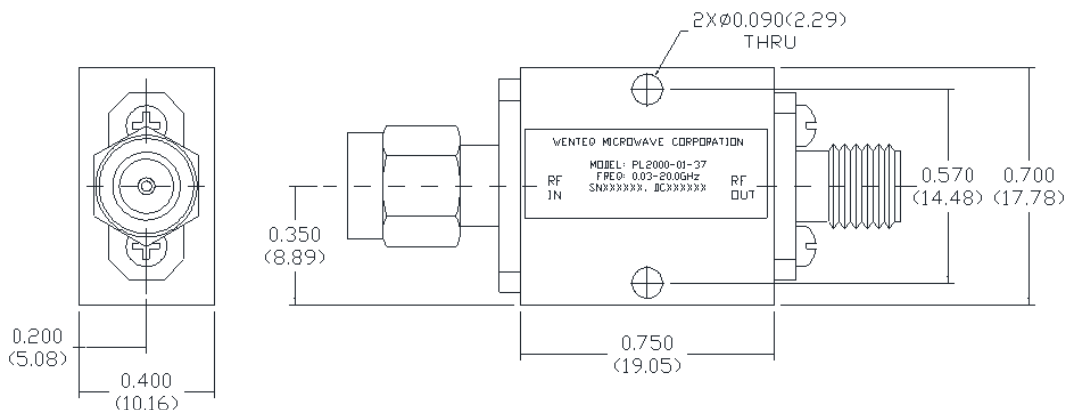
**Electrical Specification:**

Parameters	Units	Specifications		
		Minimum	Typical	Maximum
Frequency Range	GHz	0.1		18.0
Small Signal Insertion Loss	dB		1.0	1.75
Small Signal VSWR 0.1~12.0GHz 12.0~18.0GHz	-		1.30 1.50	1.60:1 2.00:1
Compression Starting Power	dBm		+10.0	
Leakage power at +30dBm or greater input power	dBm		+16.5	+18.5
Maximum CW input power without damage	dBm	+36.0		
Pulse Recovery Time	nS			50
Operating Temperature	°C	-40		+85
Survival Temperature	°C	-55		+125
In/Out connectors PL1800-01-04-FF PL1800-01-04-MF PL1800-01-04-MM			SMA Female/Female SMA male/female SMA male/male	
Outline dimensions (not including SMA connectors)	inches		0.75"x0.70"x0.40"	

Measured Frequency Response Result:



Mechanical Structure:



Note: All units in inches (mm).

Housing Material and Surface Finish:

- Body and cover material: Aluminum
- Surface finish: nickel plated
- Connector material: Stainless Steel
- Connector surface finish: Passivated

Revision History:

Revision	Date	Description	Comments
A00	01/26/2026	Initial Release	