

Features:

- Wide frequency band operation over DC~40GHz
- Power Handling: 1 W CW
- Low insertion loss, good VSWR
- +15~+18dBm Flat leakage power at +30dBm input
- DC Coupled, 50 ohm matched at input/output
- 2.92mm F-M, F-F, M-F, or M-M connector configurations
- Operating temperature -40~+85°C, storage temperature -55~+125°C

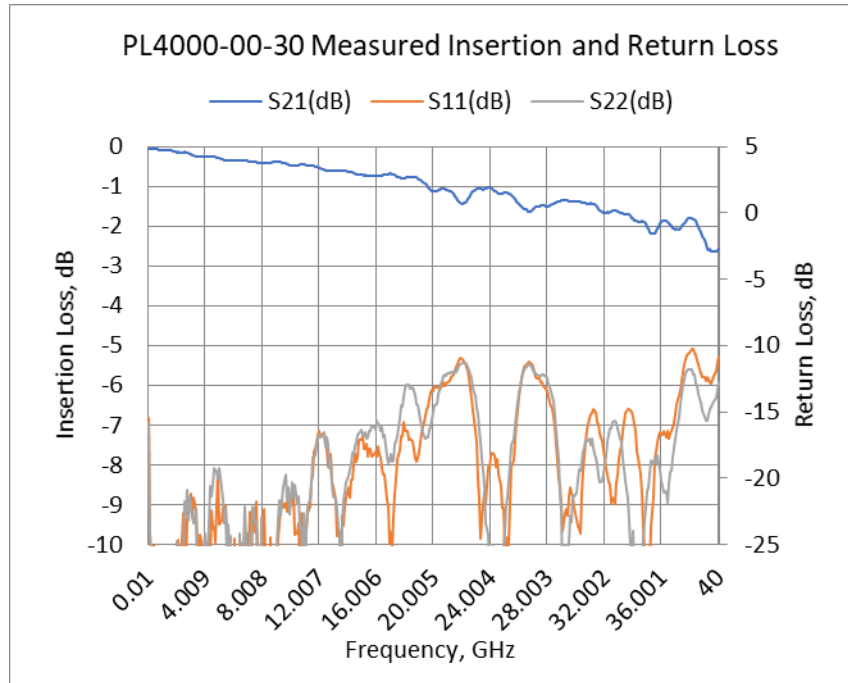
**Description:**

Power limiter PL4000-00-30 is an integrated PIN diode pair power limiter module operating in the frequency range from DC to 40.0GHz with leakage power of typical ++15~+18dBm at +30dBm input. It is ideal to be used for protecting microwave and millimeter wave receivers in radar and communication systems.

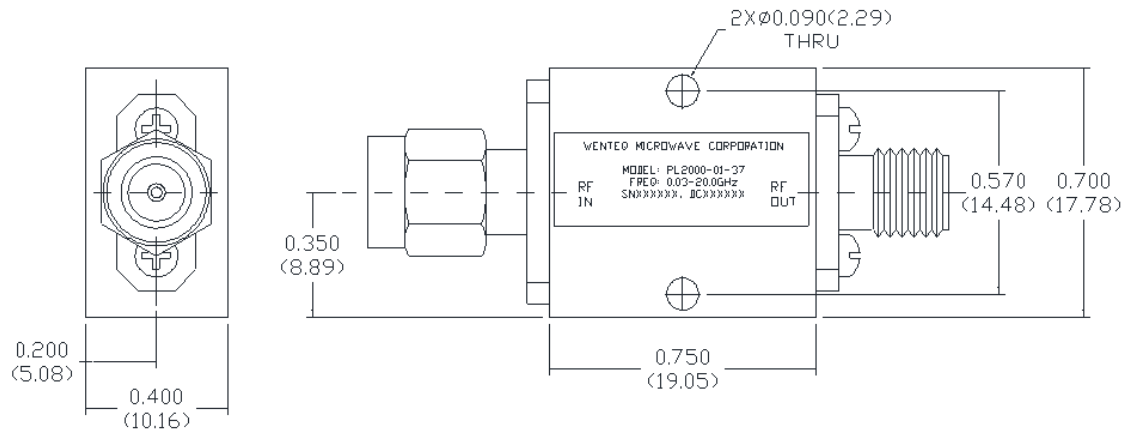
Electrical Specification:

Parameters	Units	Specifications		
		Minimum	Typical	Maximum
Frequency Range	GHz	DC		40.0
Small Signal Insertion Loss DC~26.5GHz 26.5~40.0GHz	dB		1.00 1.50	1.50 2.50
Small Signal VSWR	-		1.6:1	2.0:1
Compression Starting Power	dBm		+7.0	
Leakage power at +30dBm input DC~10GHz 10GHz to 40GHz	dBm		+18.0 +15.0	+20.0 +18.0
Maximum CW input power without damage	dBm	+30.0		
Operating Temperature	°C	-40.0		+85.0
Survival Temperature	°C	-55.0		+125
In/Out connectors PL4000-00-30-FM PL4000-00-30-FF PL4000-00-30-MF PL4000-00-30-MM			2.92mm female in/male out 2.92mm female in/female out 2.92mm male in/female out 2.92mm male in/male out	
Outline dimensions (not including connectors)	inches		0.75"x0.70"x0.40"	

Typical Test Plot:



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