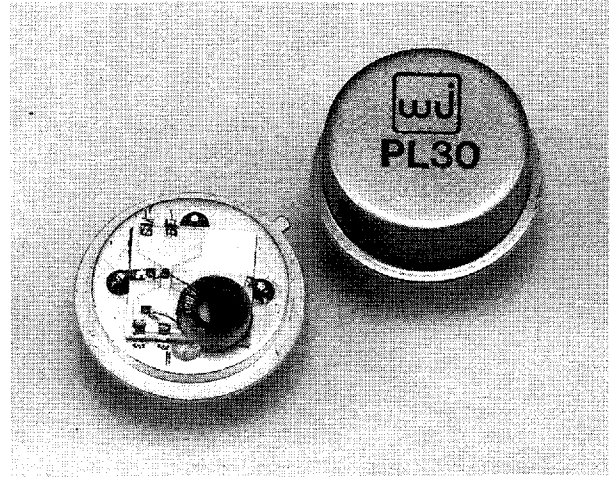


WJ-PL30/SMPL30

100 TO 2000 MHz THIN-FILM PROTECTIVE POWER LIMITER

- ◆ AVAILABLE IN SURFACE MOUNT
- ◆ LOW INSERTION LOSS: ≤ 0.9 DB (TYP.)
- ◆ LOW INPUT AND OUTPUT VSWR: $\leq 1.2:1$ (TYP.)
- ◆ HIGH CW INPUT POWER: +30 dBm



Specifications*

Characteristic	Typical	Guaranteed -54°C to 85°C
Frequency (Min.)	10 - 2400 MHz	100 - 2000 MHz
Insertion Loss at +20 dBm Input (Max.)		
100-1000 MHz	0.3 dB	0.5 dB
1000-2000 MHz	0.9 dB	1.0 dB
Leakage Power (Input Power +30 dBm CW) (Max.)	+17 dBm	+20 dBm
Limiting Threshold (Input for 1 dB Compression) (Min.)	+10 dBm	+7.5 dBm
VSWR (Max.) Input/Output		
$P_{IN} = +10$ dBm	1.2:1	1.7:1

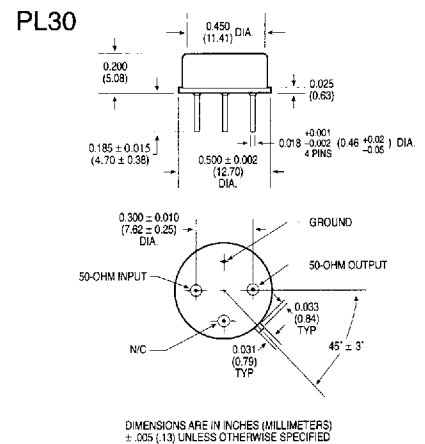
*Measured in a 50-ohm system.

Absolute Maximum Ratings

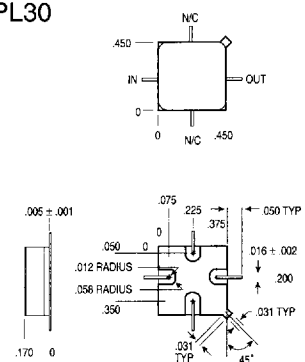
Storage Temperature	-62°C to +125°C
Maximum Case Temperature	125°C
Maximum Continuous RF Input Power	+30 dBm
Maximum Short Term RF Input Power (1 Minute Max.)	2.0 Watts
Maximum Peak Power	50 Watt (1 μ sec Pulse and 0.001 Duty Cycle Max.)
"S" Series Burn-In (No Applied Voltage) (Case)	125°C

Weight approximately 2.0 grams (0.07 oz.)

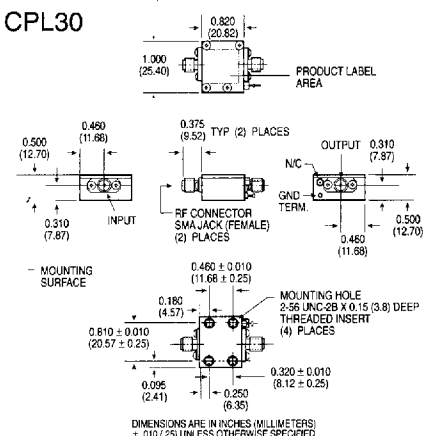
Outline Drawing



SMPL30

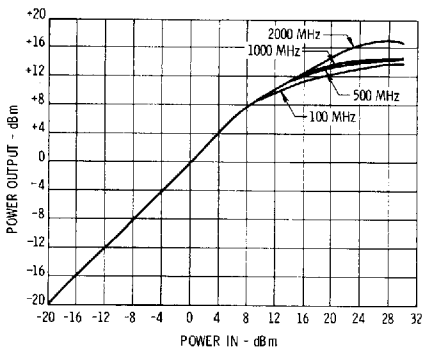


CPL30

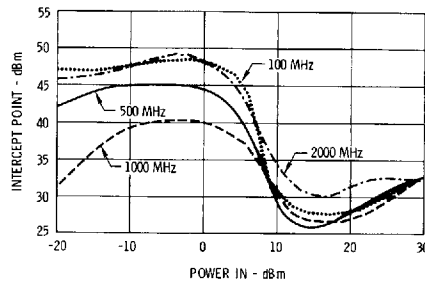


Typical Performance at 25°C

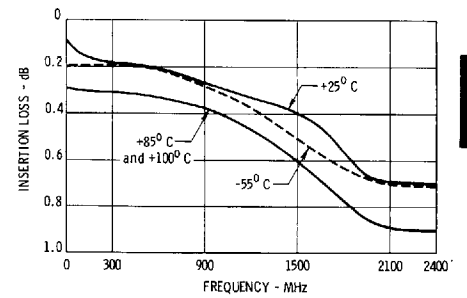
Output Power vs. Input Power



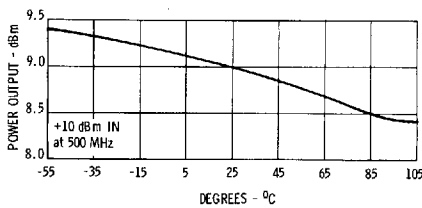
2nd Harmonic Intercept Point vs. Input Power



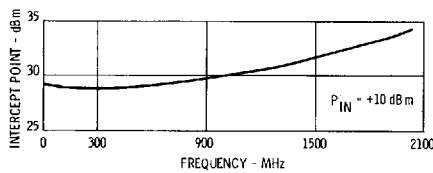
Insertion Loss vs. Frequency



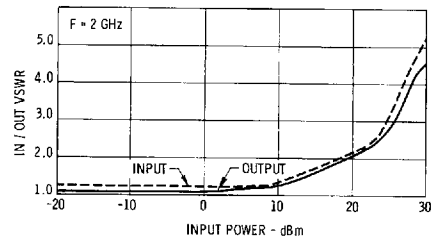
Output Power vs. Temperature



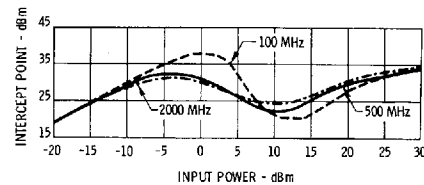
2nd Harmonic Intercept Point vs. Frequency



VSWR



3rd Order Two Tone Intercept Point vs. Input Power



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