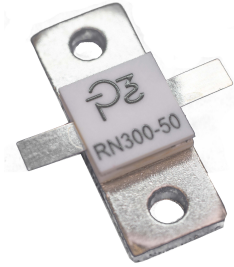




DC - 2.0 GHz.

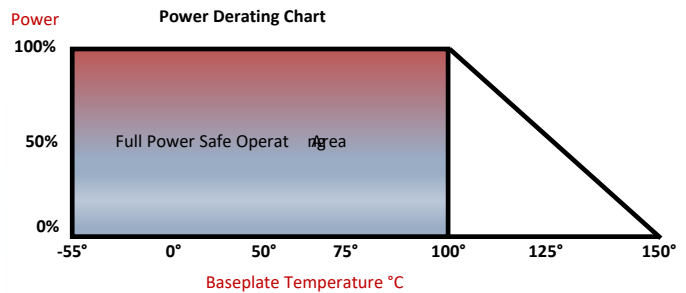
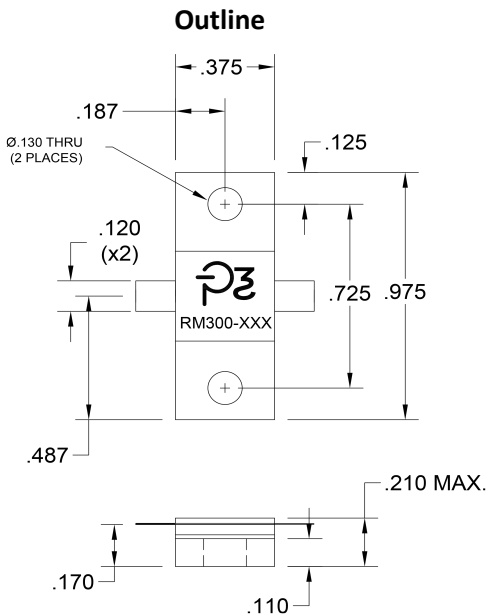
Model: RM300-XXX



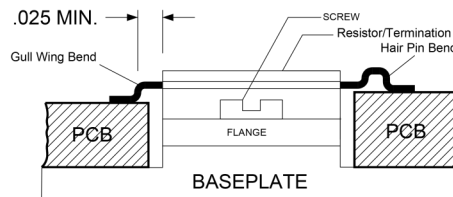
*Photo For Reference Only

XXX = Resistance Value 1 - 1000 Ω | 100 Ω Standard

HYBR-FILM flange resistors are the highest performing RF & Microwave power film resistive products on the market today. Designed to be bolted down to a heat-sink offer the highest power and frequency rating than any other supplier. Power ratings from 30-800 watts combined with versatile industry standard configurations allow for easy design-in solutions or replacing older outdated marginal devices that may have degraded or drifted over time. Applications include Medical, Broadcast, Industrial, Commercial Wireless, Military and Space. The P3 library of designs allows for modifications of standard designs to be made quickly and inexpensively to meet specific requirements with short delivery times. Please contact the factory for any special requirements or frequency ranges.



SUGGESTED MOUNTING AND TAB STRESS RELIEF METHOD



PCB BELOW TAB

PCB EVEN w/TAB

THREAD SIZE	TORQUE SETTING
2-56	4 inch-pounds
4-40	6 inch-pounds
6-32	8-inch-pounds
8-32	12-inch-pounds

ELECTRICAL SPECIFICATION

Frequency Range: DC - 2.0 GHz.
 Resistance Values: 1 - 1000 Ω ±5%, ±2% Available
 Power: 300 Watt Average
 Capacitance: 3.1 pF Typ.
 Power Rating: 100% @ +100° C cycle)
 Operating Temp.: -55° C to +150° C

*Specifications are subject to change without notice

MECHANICAL SPECIFICATION

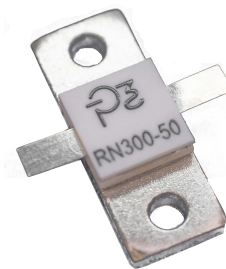
Resistor Material: Hybrid Blended Thick Film
 Chip Material: 99.6% Beryllium Oxide
 Cover: 96% Aluminum Oxide
 Solder Tabs: 99% Silver, .005" Thick
 Flange: Copper, Nickel Plated
 Storage Temp.: -65°C to +200°C

Contact Sales: sales@p3-rf.com



DC - 2.0 GHz.

Model: RM300-XXX



RELIABILITY PERFORMANCE

<u>PARAMETER</u>	<u>TEST PERFORMED</u>	<u>FINDINGS</u>
Short Term Overload:	1.1x Rated Power For 5 Seconds	≤ 5.0% Resistance Variance
Load Life:	Apply 1/2 Power Under 40°C ±2°C 90 Minutes on/ 30 Minutes off. Repeat for 100 hours	≤ 5.0% Resistance Variance
Moisture Resistance:	MIL-PRF-55342 paragraph 4.8.9 95% RH, 25°C - 65°C	≤ 5.0% Resistance Variance
Terminal Strength:	MIL-STD-202 Method 211 Test Condition "A" 3lbs. Test Condition "B" 5 bends	No Significant Change
Solderability (Lead only):	MIL-STD-202 Method 208 Test C	>95% Covered
High Temperature Storage:	125°C ±2°C for 500 Hours	≤ 5.0% Resistance Shift No Significant Change
Thermal Shock:	-5°C to +150°C 30 Minutes Dwell, 5 Cycles	≤ 5.0% Resistance Shift No Significant Change

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