Alumina Terminations

RF Power

Flanged Terminations

50 Ω

General Specifications

Resistive Element:	Thick film
Substrate:	Alumina ceramic
Mounting Flange:	Copper, nickel plated per QQ-N-290
Lead(s):	99.99% pure silver (.005” thk)
Resistance Value:	50 ohm, ±2%

Notes: Tolerance is ±.010, unless otherwise specified. Operating temperature is -55°C to +125°C (see chart). Designed to meet or exceed applicable portions of MIL-E-5400. All dimensions are in inches. Lead length 0.15” minimum.
Specifications subject to change without notice.

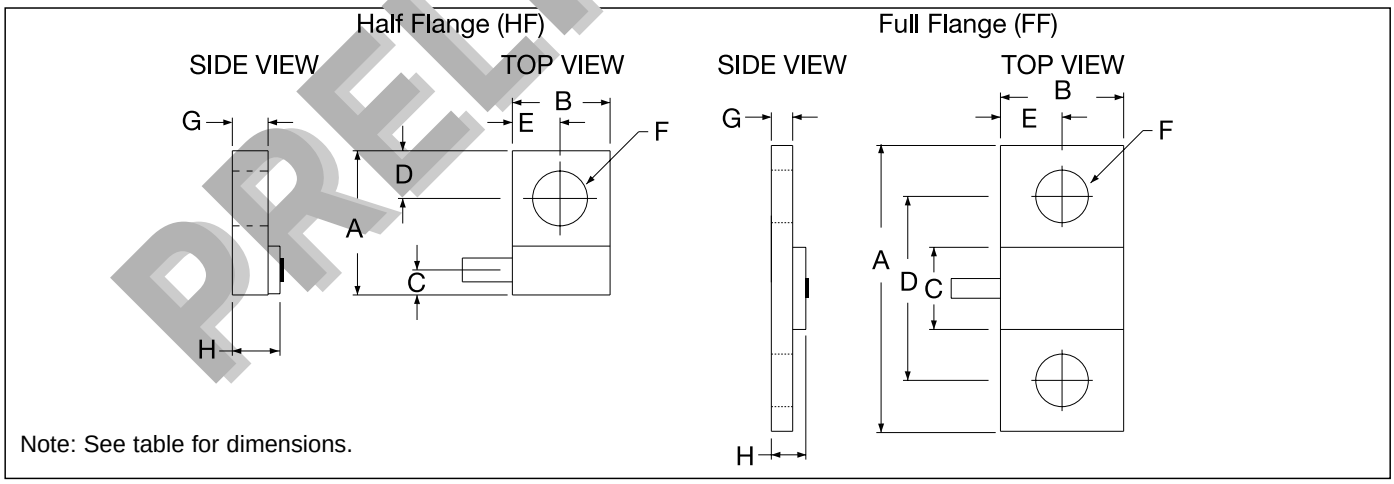
Features

- DC - 6.0 GHz
- 20-40 Watts
- Low Cost
- Alumina Ceramic
- Non-Nichrome Resistive Element
- 100% Tested

Dimensions

PART NUMBER	TYPE	A	B	C	D	E	F	G	H
RFP-20A50TV	HF	0.300	0.200	0.050	0.100	0.100	0.116	0.062	0.090
RFP-20A50TVR	HF	0.300	0.200	0.050	0.100	0.100	0.116	0.062	0.090
RFP-30A50TP	HF	0.515	0.250	0.125	0.125	0.125	0.116	0.062	0.105
RFP-30A50TPR	HF	0.515	0.250	0.125	0.125	0.125	0.116	0.062	0.105
RFP-30A50TPC	HF	0.515	0.250	0.125	0.125	0.125	0.116	0.062	0.105
RFP-40A50TE	FF	0.870	0.375	0.250	0.560	0.187	0.161	0.062	0.105
RFP-40A50TBF	FF	0.975	0.250	0.375	0.725	0.125	0.130	0.062	0.105
RFP-40A50TC	FF	0.975	0.375	0.375	0.725	0.187	0.130	0.110	0.168

Outline Drawing



Note: See table for dimensions.

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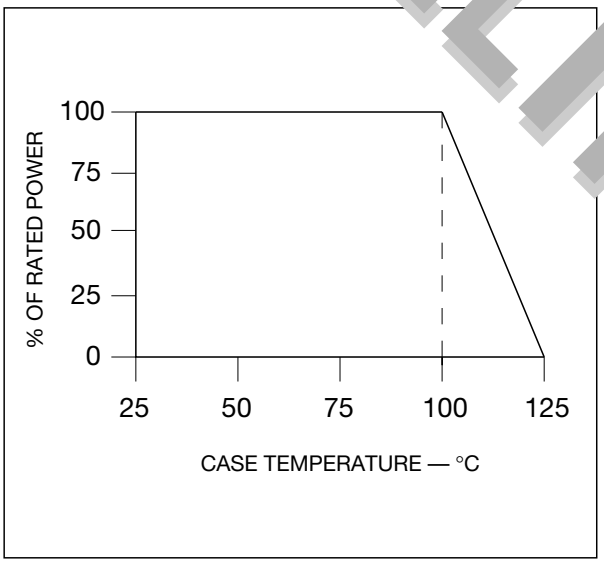
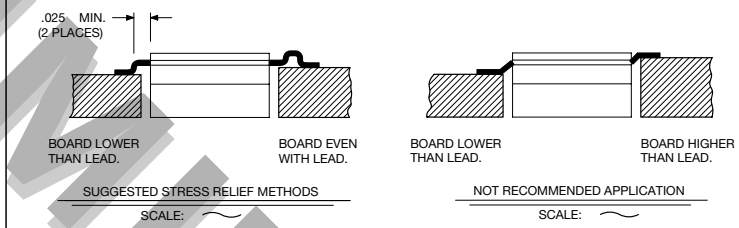
Typical Performance

PART NUMBER	VALUE (OHM)	POWER (WATTS)	MAX VSWR	FREQ. (GHz)
RFP-20A50TV	50	20	1.25:1	6.0
RFP-20A50TVR	50	20	1.25:1	6.0
RFP-30A50TP	50	30	1.25:1	3.0
RFP-30A50TPR	50	30	1.25:1	3.0
RFP-30A50TPC	50	30	1.25:1	3.0
RFP-40A50TE	50	40	1.25:1	3.0
RFP-40A50TBF	50	40	1.20:1	2.5
RFP-40A50TC	50	40	1.20:1	2.5

Power Derating



Suggested Mounting Procedures



1. Make sure that the devices are mounted on flat surfaces (.001" under the device) to optimize the heat transfer.
2. Drill & tap the heatsink for the appropriate thread size to be used.
3. Coat heatsink with a minimum amount of high quality silicone grease (.001" max. thickness).
4. Position device on mounting surface and secure using socket head screws, flat & split washers. Torque screws to the appropriate value. Make sure that the device is flat against the heatsink. (Care should be taken to avoid upward pressure of the leads towards the lid).
5. Solder leads in place using an SN63 type solder with a controlled temperature iron (210°C).

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