

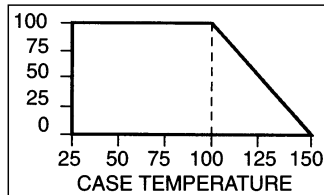
RF Power

Coaxial Terminations



Power Derating:

RF Power terminations can be derated for flange temperatures up to 150°C. (see chart). This will provide the user with improved reliability and a wide margin of performance under stringent operating conditions. This is a result of a proprietary thick film process allowing for maximum heat transfer from the film to the BeO substrate.



General Notes:

1. Resistance Tolerance: Standard tolerance is $\pm 5\%$.
2. Mechanical Tolerance: ± 0.010 unless otherwise specified.
3. Custom mechanical configurations available upon request.
4. All connectors are female, unless otherwise requested.
5. All dimensions are in inches.

Suggested Mounting Procedures:

1. Make sure that the devices are mounted on flat surfaces to optimize the heat transfer (0.001 in/in under the device).
2. Drill and tap the heatsink for the appropriate thread size to be used.
3. Coat heatsink with a minimum amount of high quality silicone grease (0.001 in/in maximum thickness).
4. Position device on mounting surface and secure using socket head screws, flat and split washers. Torque screws to the appropriate value. Make sure that the device is flat against the heatsink.

Case Style A

| Part Number | Power (Watts) | VSWR (Max.) | Freq. (GHz) |
|----------------|---------------|-------------|-------------|
| RFP-15-50SMA-A | 15 | 1.25:1 | DC-3 |

Case Style B

| Part Number | Power (Watts) | VSWR (Max.) | Freq. (GHz) |
|-----------------|---------------|-------------|-------------|
| RFP-50-50SMA-B | 50 | 1.25:1 | DC-3 |
| RFP-100-50SMA-B | 100 | 1.25:1 | DC-3 |

Cable & Coaxial Terminations

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RF Power

Technical drawing of Case Style C RF Power Component. Dimensions include: .515, 1.060, 2.000, 1.000, .180, 1.250, .375, 1.625, .215 DIA. THRU. (4 PLACES), .187, .875, .375, 1.625. The component is labeled 'RF Power Components Inc. RFP-150-50SMA-C'.

Case Style C

| Part Number | Power (Watts) | VSWR (Max.) | Freq. (GHz) |
|-----------------|---------------|-------------|-------------|
| RFP-150-50SMA-C | 150 | 1.20:1 | DC-3 |
| RFP-250-50N-C | 250 | 1.30:1 | DC-3 |
| RFP-500-50N-C | 500 | 1.25:1 | DC-1.2 |

Technical drawing of Case Style D RF Power Component. Dimensions include: 3.000, 1.000, .800, .410, 2.180, .125 DIA. THRU. (4 PLACES), 1.000, .100. The component is labeled 'RF Power Components Inc. RFP-200-50N-D'.

Case Style D

| Part Number | Power (Watts) | VSWR (Max.) | Freq. (GHz) |
|---------------|---------------|-------------|-------------|
| RFP-200-50N-D | 200 | 1.08:1 | DC-1 |

Technical drawing of Case Style E RF Power Component. Dimensions include: 3.655, .180 DIA. THRU. (6 PLACES), 1.970, 1.405, .280, 3.315, 1.595, .345, .985, 1.030 MAX., .515. The component is labeled 'RF Power Components Inc. RFP-800-50N-E'.

Case Style E

| Part Number | Power (Watts) | VSWR (Max.) | Freq. (MHz) |
|---------------|---------------|-------------|-------------|
| RFP-800-50N-E | 800 | 1.15:1 | DC-500 |

ORDERING INFORMATION

PART NUMBERING

RFP - XXX - XXX - XXX - X

Power Dissipation _____

Resistance Value _____

Case Style _____

Connector Type _____