

HIGH POWER, ALUMINUM NITRIDE RESISTORS & TERMINATIONS

THIN FILM, DROP-IN, 10-600 WATTS, DC-4 GHz

SERIES ANT, ANR

GENERAL INFORMATION

These high power devices are designed to dissipate power in R.F. circuits when mounted to an appropriate heat sink. The terminations provide a low VSWR under maximum power conditions. The resistor configurations are typically used in "Wilkinson" type power divider networks, or to terminate 3 dB stripline or microstrip hybrids. Aluminum nitride is used for those applications where the use and disposal of beryllium oxide is a concern.

Notes:

1. 50 and 100 Ohms standard. Standard tolerance $\pm 5\%$. Specify resistance value when ordering.
2. VSWR applies to termination style only.

GENERAL SPECIFICATIONS

| | |
|---------------------------|---|
| Resistive Element: | Thin Film |
| Substrate: | Aluminum Nitride |
| Cover: | Alumina Ceramic |
| Mounting Flange: | Copper, Nickel Plated per QQ-N-290 |
| Tab: | Beryllium Copper, Gold Plated per MIL-G-45204 |

PERFORMANCE SPECIFICATIONS

| Model | Frequency Range | Input Power (Watts Avg.) | Peak Power | VSWR (TYP.) (Note 2) | Capacitance (pF) (Typ.) | Figure No. |
|--------------------|-----------------|--------------------------|------------|----------------------|-------------------------|------------|
| ANT & ANR 300-10 | DC-4.0 GHz | 10 | 1 kW | 1.25:1 | 1.0 | 1 |
| ANT & ANR 515-40 | DC-2.5 GHz | 40 | 2 kW | 1.15:1 | 1.0 | 2 |
| ANT & ANR 515-80 | DC-1.0 GHz | 80 | 4 kW | 1.25:1 | 1.6 | 2 |
| ANT & ANR 800-120 | DC-4.0 GHz | 120 | 2 kW | 1.15:1 | 1.4 | 3 |
| ANT & ANR 870-150 | DC-2.0 GHz | 150 | 4 kW | 1.25:1 | 4.5 | 4 |
| ANT & ANR 975-200 | DC-1.0 GHz | 200 | 4 kW | 1.25:1 | 4.5 | 5 |
| ANT & ANR 1900-600 | DC-2.0 GHz | 600 | 10 kW | 1.50:1 | 15.0 | 6 |

TERMINATIONS (ANT) SERIES

**ANT 300-10 Flange Mounted
10 WATTS**


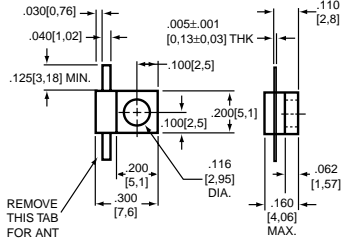


FIG. 1



**ANT 515-40
ANT 515-80
40 WATTS
80 WATTS
Flange Mounted**

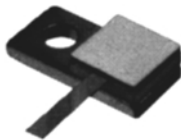
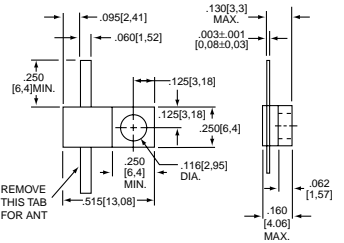



FIG. 2

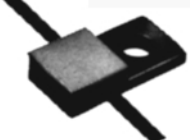


RESISTORS (ANR) SERIES

**ANR 300-10 Flange Mounted
10 WATTS**



**ANR 515-40
ANR 515-80
40 WATTS
80 WATTS
Flange Mounted**



KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]



KDI-RESISTOR PRODUCTS

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RESISTORS & TERMINATIONS
 THIN FILM, DROP-IN, 10-600 WATTS, DC-4 GHz

SERIES ANT, ANR

**ANT 800-120 Flange Mounted
 120 WATTS**

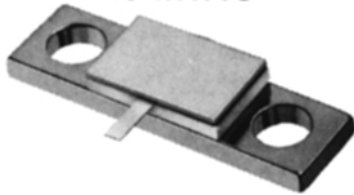
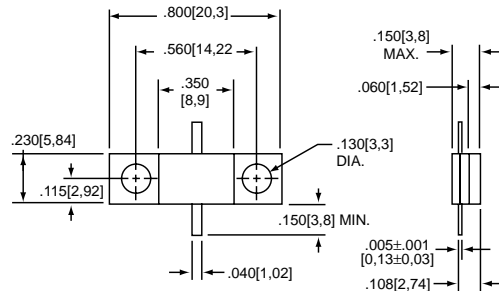
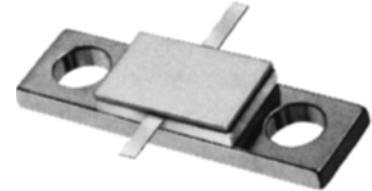


FIG. 3



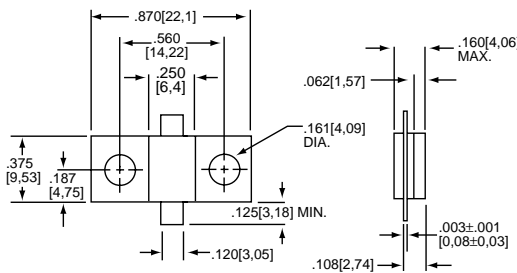
**ANR 800-120 Flange Mounted
 120 WATTS**



**ANT 870-150 Flange Mounted
 150 WATTS**



FIG. 4



**ANR 870-150 Flange Mounted
 150 WATTS**



**ANT 975-200 Flange Mounted
 200 WATTS**

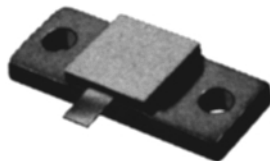
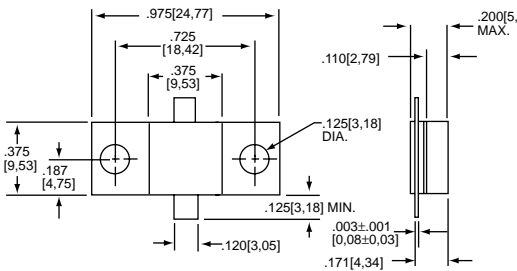
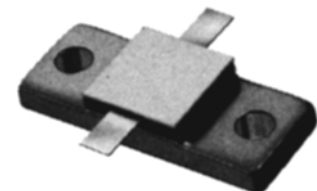


FIG. 5



**ANR 975-200 Flange Mounted
 200 WATTS**



**ANT 1900-600 Flange Mounted
 600 WATTS**

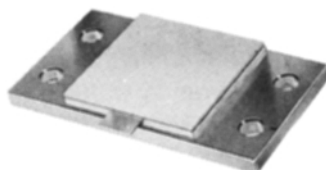
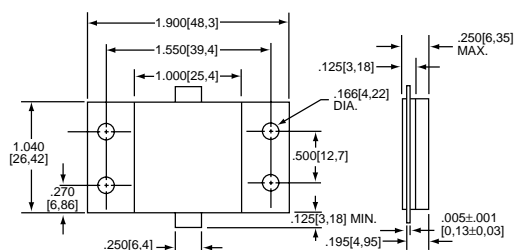


FIG. 6



**ANR 1900-600 Flange Mounted
 600 WATTS**



KEY: Inches[Millimeters] .XX ±.03 .XXX ±.010 [.X ±0.8 .XX ±0.25]



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