

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**


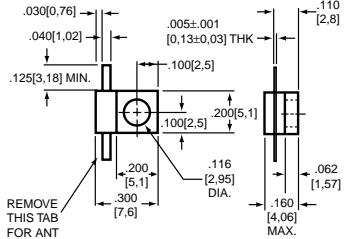


FIG. 1



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

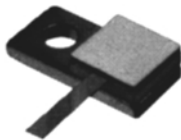
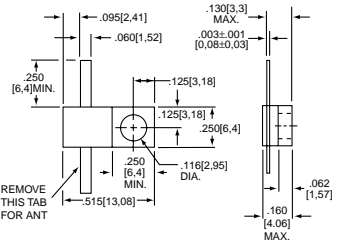



FIG. 2

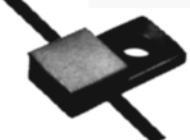


RESISTORS (ANR) SERIES

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



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



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



KDI-RESISTOR PRODUCTS

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HIGH POWER, ALUMINUM NITRIDE
RESISTORS & TERMINATIONS
 THIN FILM, DROP-IN, 10-600 WATTS, DC-4 GHz

SERIES ANT, ANR

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

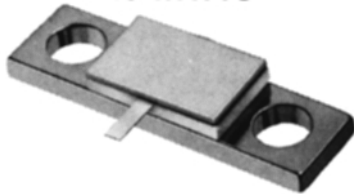
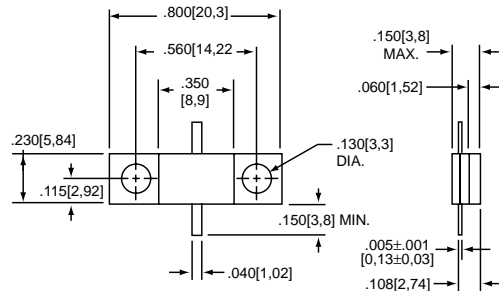
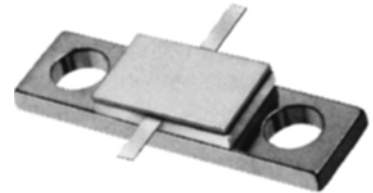


FIG. 3



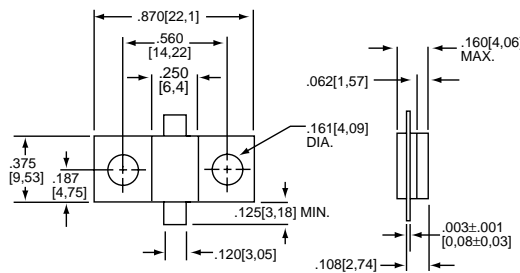
**ANR 800-120 Flange Mounted
 120 WATTS**



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



FIG. 4



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



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

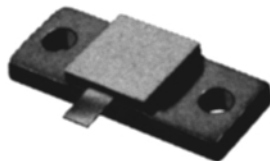
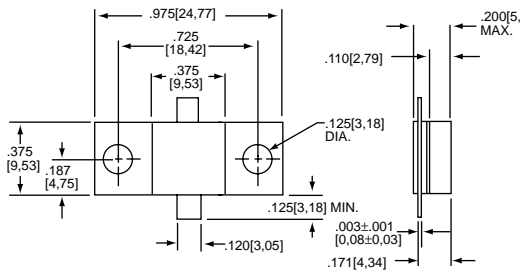
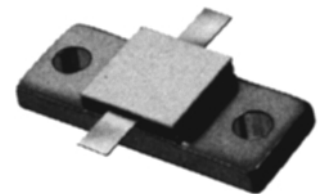


FIG. 5



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



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

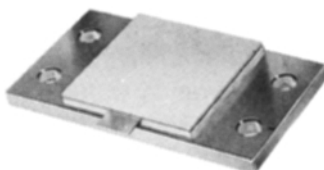
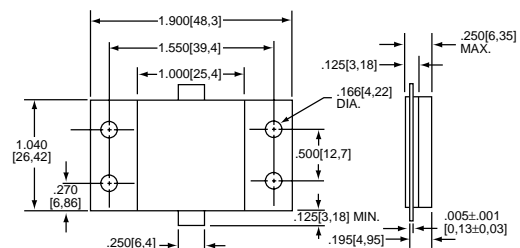


FIG. 6



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



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



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