

SERIES ANT, ANR RESISTORS & TERMINATIONS

RoHS
Compliant

High Power, Aluminum Nitride, Thin Film, Drop-in – 10-600 Watts, DC-4 GHz

GENERAL INFORMATION

These high power devices are designed to dissipate power in RF 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

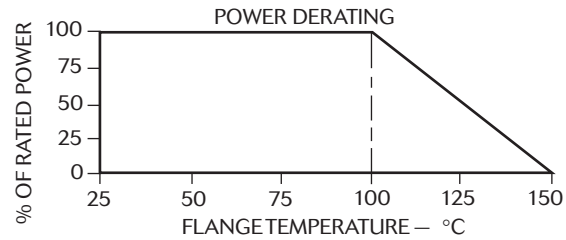
1. Input power ratings are based on flange temperature of 100° C maximum.
2. 50 and 100 Ohms standard. Other values from 10-500 Ohms available on special order. Contact factory for details. Standard tolerance $\pm 5\%$. Specify resistance value when ordering.
3. VSWR applies to termination style only.

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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-4520 4

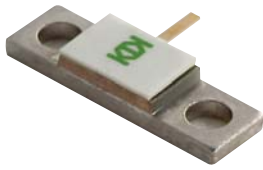
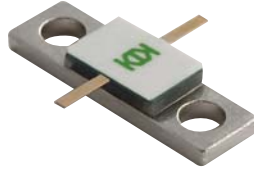
AVERAGE POWER DERATING CURVE



PERFORMANCE SPECIFICATIONS

Model	Frequency Range	Input Power (Watts Avg.)	VSWR (Typical) (Note 3)	Capacitance (pF) (Typ.)	Figure No.
ANT & ANR 300-10	DC-4.0 GHz	10	1.25:1	1.0	1
ANT & ANR 515-40	DC-2.5 GHz	40	1.15:1	1.0	2
ANT & ANR 515-80	DC-1.0 GHz	80	1.25:1	1.6	2
ANT & ANR 800-100	DC-2.0 GHz	100	1.25:1	1.4	3
ANT & ANR 870-150	DC-2.0 GHz	150	1.25:1	4.5	4
ANT & ANR 975-200	DC-1.0 GHz	200	1.25:1	4.5	5
ANT & ANR 1250-400	DC-500 MHz	400	1.50:1	7.0	6
ANT & ANR 1900-600	DC-500 MHz	600	1.50:1	15.0	7

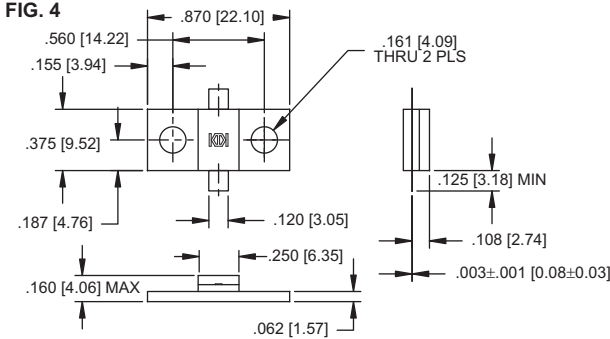
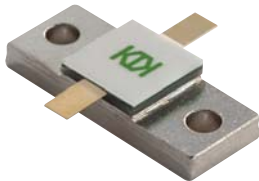
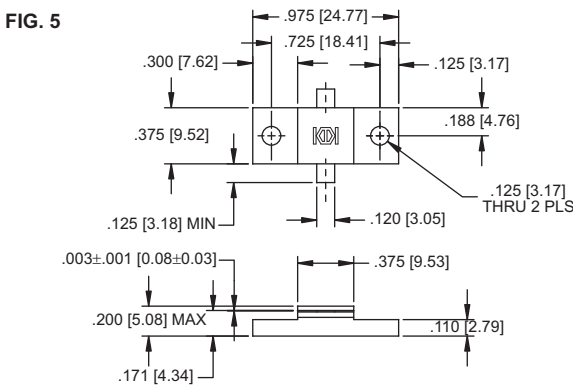
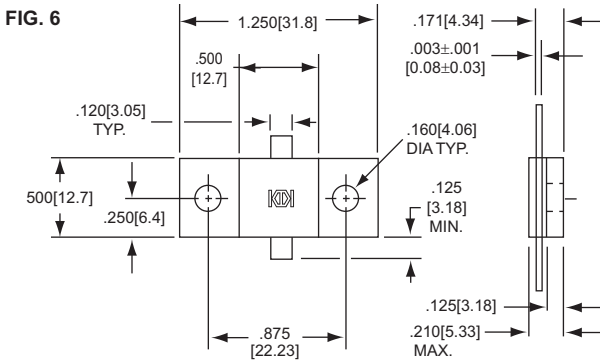
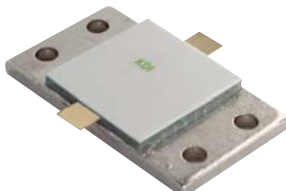
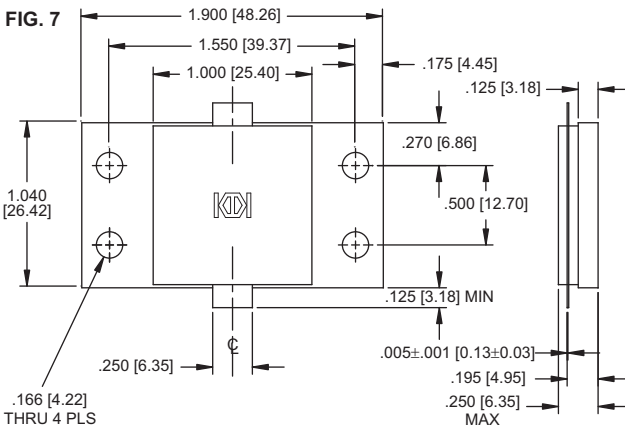
PHYSICAL DIMENSIONS

TERMINATIONS (ANT) SERIES	RESISTORS (ANR) SERIES	FIGURES
ANT 300-10 — 10 WATTS Flange Mounted 	ANR 300-10 — 10 WATTS Flange Mounted 	FIG. 1
ANT 515-40 — 40 WATTS ANT 515-80 — 80 WATTS Flange Mounted 	ANR 515-40 — 40 WATTS ANR 515-80 — 80 WATTS Flange Mounted 	FIG. 2
ANT 800-100 — 100 WATTS Flange Mounted 	ANR 800-100 — 100 WATTS Flange Mounted 	FIG. 3

KEY: Inches [Millimeters] .XX $\pm .03$.XXX $\pm .010$ LX ± 0.8 XX ± 0.25

SERIES ANT, ANR RESISTORS & TERMINATIONS

PHYSICAL DIMENSIONS

TERMINATIONS (ANT) SERIES	RESISTORS (ANR) SERIES	FIGURES
ANT 870-150 — 150 WATTS Flange Mounted 	ANR 870-150 — 150 WATTS Flange Mounted 	FIG. 4 
ANT 975-200 — 200 WATTS Flange Mounted 	ANR 975-200 — 200 WATTS Flange Mounted 	FIG. 5 
ANT 1250-400 — 400 WATTS Flange Mounted 	ANR 1250-400 — 400 WATTS Flange Mounted 	FIG. 6 
ANT 1900-600 — 600 WATTS Flange Mounted 	ANR 1900-600 — 600 WATTS Flange Mounted 	FIG. 7 

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