

# SERIES PMS, PPR, PPT RESISTORS & TERMINATIONS

High Power, Thin Film, Drop-in – 10-650 Watts, DC-4 GHz

## GENERAL INFORMATION

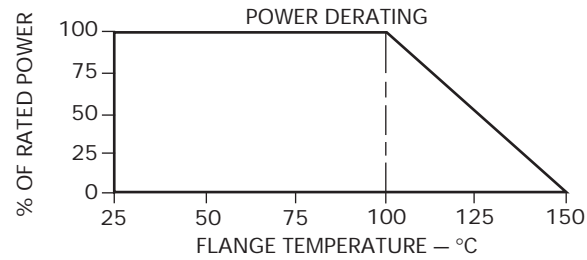
These high power devices are designed to dissipate power in R.F. circuits when mounted to an appropriate heat sink. The terminations provide a low VSWR under maximum power conditions. The resistor configurations are typically used in "Wilkinson" type power divider networks, or to terminate 3 dB stripline or microstrip hybrids.

### 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 ±5%. Specify resistance value when ordering.
3. VSWR applies to termination style only.



## AVERAGE POWER DERATING CURVE



## GENERAL SPECIFICATIONS



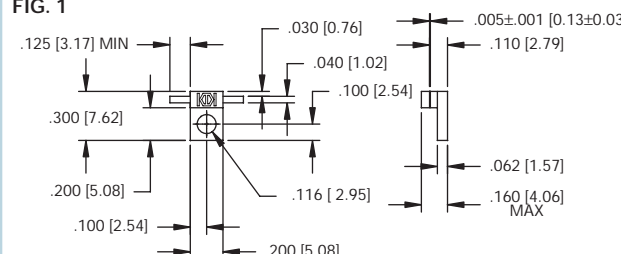


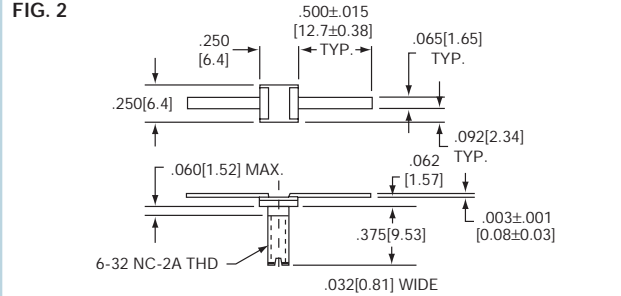
Resistive Element	Thin Film and Thick Film*
Substrate	Beryllium Oxide Ceramic
Cover	Alumina Ceramic
Mounting Flange	Copper, Nickel Plated per QQ-N-290
Tab	Beryllium Copper, Gold Plated per MIL-G-45204

\* Low cost thick film models available on some sizes. Consult Factory for specifications.

## PERFORMANCE SPECIFICATIONS

Model	Frequency Range	Input Power (Watts Avg.)	VSWR (Typical) (Note 3)	Capacitance (pF) (Typ.)	Figure No.
PPR & PPT 300-10-3*	DC-4.0 GHz	10	1.35:1 —DC-4.0 GHz	0.8	1
PMS-100 & PMS-200*	DC-2.0 GHz	20	1.25:1 —DC-2.0 GHz	1.2	2
PPR & PPT 515-20-3*	DC-2.0 GHz	20	1.10:1 —DC-1.0 GHz 1.25:1 —1.0-2.0 GHz	0.8	3
PPT515-30-4	DC-4.0 GHz	30	1.20:1 —DC-4 GHz	1.2	4
PPR & PPT 515-30*	DC-2.0 GHz	30	1.10:1 —DC-1.0 GHz 1.25:1 —1.0-2.0 GHz	0.8	5
PPR & PPT 800-40-3	DC-4.0 GHz	40	1.25:1 —DC-4.0 GHz	1.4	6
PPT800-100A	DC-2.0 GHz	100	1.25:1 —DC-2.0 GHz	1.4	7
PPR & PPT 870-150-3*	DC-1.0 GHz	150	1.20:1 —DC-500 MHz 1.35:1 —500-1000 MHz	3.5	8
PPR & PPT 975-250-3	DC-1.0 GHz	250	1.25:1 —DC-500 MHz 1.35:1 —500-1000 MHz	5.0	9
PPR & PPT 1250-400	DC-500 MHz	400	1.50:1 —DC-500 MHz	7.0	10
PPR & PPT 1900-800	DC-500 MHz	650	1.25:1 —DC-200 MHz 1.50:1 —200-500 MHz	10.2	11



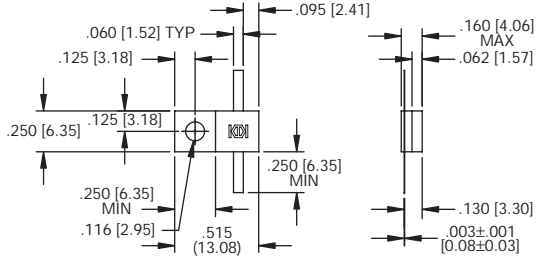
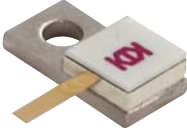
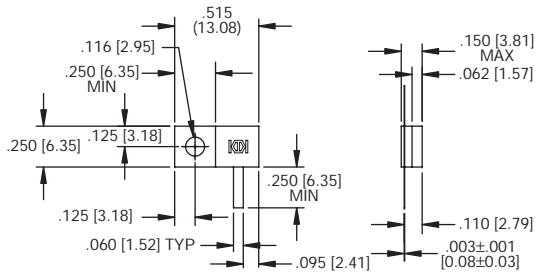

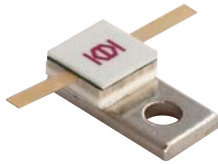
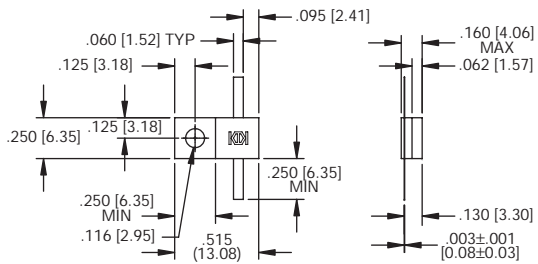

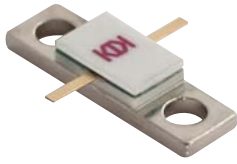
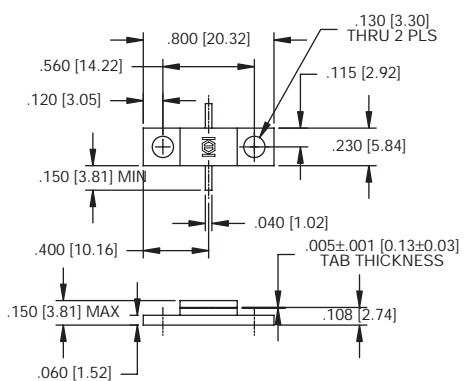
## PHYSICAL DIMENSIONS

TERMINATIONS (PPT) SERIES	RESISTORS (PPR) SERIES	FIGURES
<b>PPT 300-10-3 — 10 WATTS</b> Flange Mounted 	<b>PPR 300-10-3 — 10 WATTS</b> Flange Mounted 	<b>FIG. 1</b> 
<b>PMS 100 — 20 WATTS</b> Stud Mounted 	<b>PMS 200 — 20 WATTS</b> Stud Mounted 	<b>FIG. 2</b> 

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


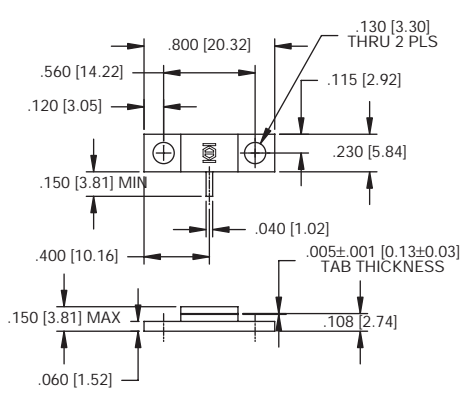


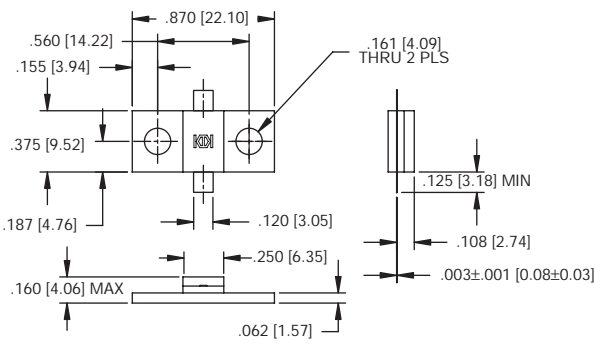


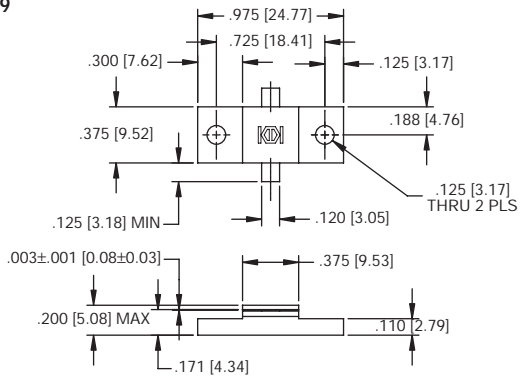


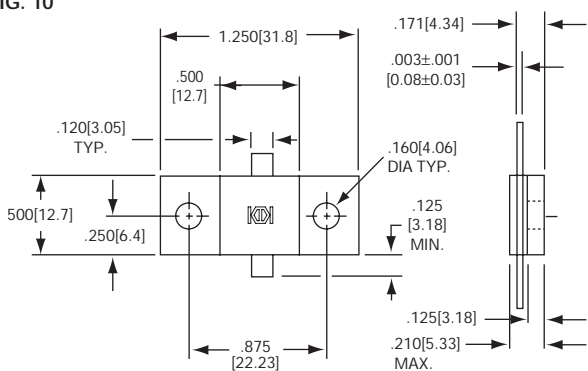
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## PHYSICAL DIMENSIONS



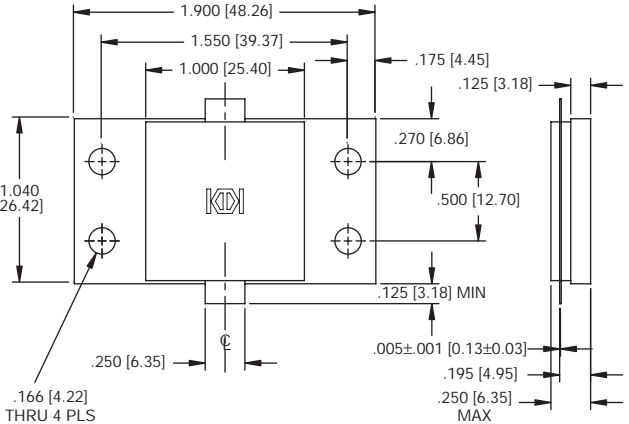
TERMINATIONS (PPT) SERIES	RESISTORS (PPR) SERIES	FIGURES
<p>PPT 515-20-3 — 20 WATTS Flange Mounted</p> 	<p>PPR 515-20-3 — 20 WATTS Flange Mounted</p> 	<p>FIG. 3</p> 
<p>PPT 515-30-4 — 30 WATTS Flange Mounted</p> 	<p><i>Offered as a Termination Only!</i></p>	<p>FIG. 4</p> 
<p>PPT 515-30 — 30 WATTS Flange Mounted</p> 	<p>PPR 515-30 — 30 WATTS Flange Mounted</p> 	<p>FIG. 5</p> 
<p>PPT 800-40-3 — 40 WATTS Flange Mounted</p> 	<p>PPR 800-40-3 — 40 WATTS Flange Mounted</p> 	<p>FIG. 6</p> 

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## PHYSICAL DIMENSIONS

TERMINATIONS (PPT) SERIES	RESISTORS (PPR) SERIES	FIGURES
<p>PPT 800-100A — 100 WATTS Flange Mounted</p> 	<p><i>Offered as a Termination Only!</i></p>	<p>FIG. 7</p> 
<p>PPT 870-150-3 — 150 WATTS Flange Mounted</p> 	<p>PPR 870-150-3 — 150 WATTS Flange Mounted</p> 	<p>FIG. 8</p> 
<p>PPT 975-250-3 — 250 WATTS Flange Mounted</p> 	<p>PPR 975-250-3 — 250 WATTS Flange Mounted</p> 	<p>FIG. 9</p> 
<p>PPT 1250-400 — 400 WATTS Flange Mounted</p> 	<p>PPR 1250-400 — 400 WATTS Flange Mounted</p> 	<p>FIG. 10</p> 

# SERIES PMS, PPR, PPT RESISTORS & TERMINATIONS

PHYSICAL DIMENSIONS		
TERMINATIONS (PPT) SERIES	RESISTORS (PPR) SERIES	FIGURES
<p>PPT 1900-800 — 650 WATTS Flange Mounted</p> 	<p>PPR 1900-800 — 650 WATTS Flange Mounted</p> 	<p>FIG. 11</p> 

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