

High Power Resistive Products

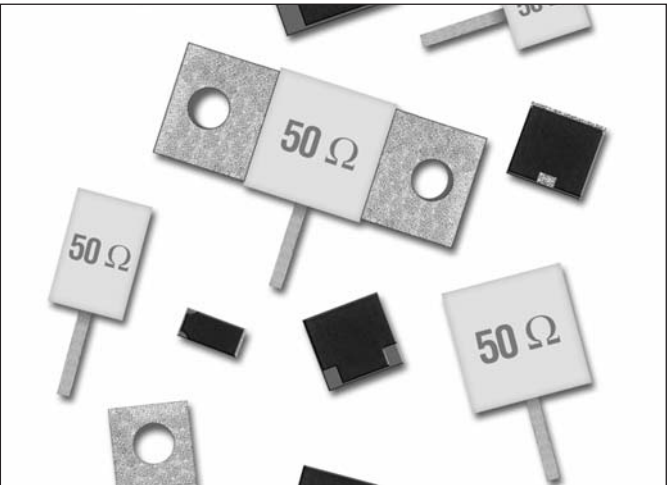


Terminations

AVX introduces its complete line of High Power Termination Products. All Products are designed and manufactured at our ISO 9001 Facilities.

ELECTRICAL SPECIFICATIONS

Resistance: 50 Ω standard (10 Ω - 200 Ω available)
Resistance Tolerance: $\pm 5\%$ standard ($\pm 2\%$ available)
Power: 2 Watts through 225 Watts
Operating Temperature Range: -55°C to $+150^{\circ}\text{C}$
Temperature Coefficient: $< 150 \text{ ppm}/^{\circ}\text{C}$
Low VSWR



MECHANICAL SPECIFICATIONS

Package: Surface Mount Chips, Chips, Leaded Chips, Flange Mount
Substrate Material: Aluminum Nitride
Process: Thin Film
Resistive Material: Tantalum
Terminals: Silver
Cover: Alumina
Mounting Flange: 100% Cu, Ni or Ag Plated
Mechanical Tolerance: ± 0.13 (0.005)
RoHS Compliant
SMT and Chip products, supplied on Tape and Reel

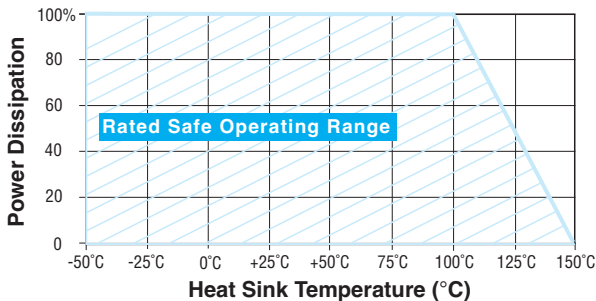


FLANGE MOUNT TERMINATIONS HOW TO ORDER

RPA	0300	T	0050	J	N	BK
AVX Series	Case Size	Type T = Termination	Value 0050 = 50 Ω	Tolerance J = $\pm 5\%$ (G = $\pm 2\%$ available Consult Factory)	Terminal N = Silver	Packaging BK = Plastic Carrier

Contact factory for custom ratings and sizes.

POWER DERATING



Terminations

FLANGE MOUNT TERMINATION – P/N: RPA0302T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50 \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 20 Watts

Frequency: DC to 18 GHz

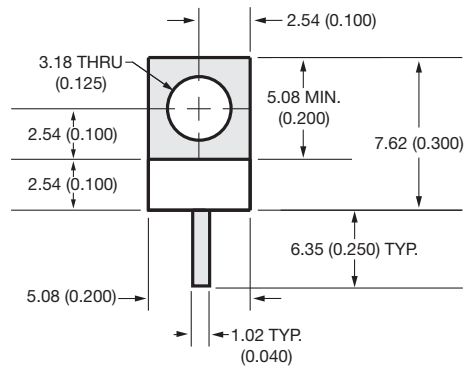
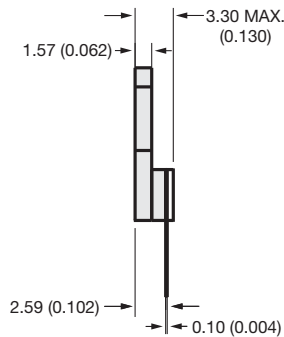
VSWR: 1.15:1 @ 15 GHz, 1.25:1 @ 18 GHz

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

RoHS Compliant



mm (inches)

FLANGE MOUNT TERMINATION – P/N: RPA0500T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50 \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 25 Watts

Frequency: DC to 6.0 GHz

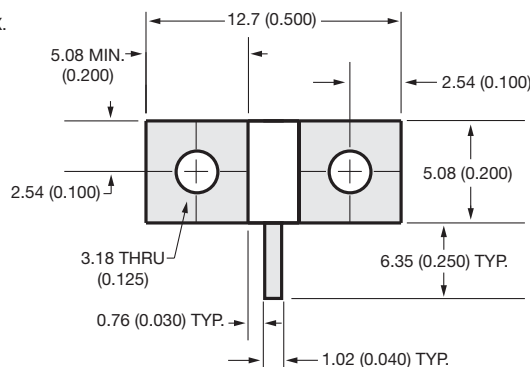
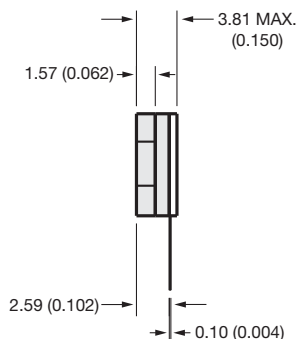
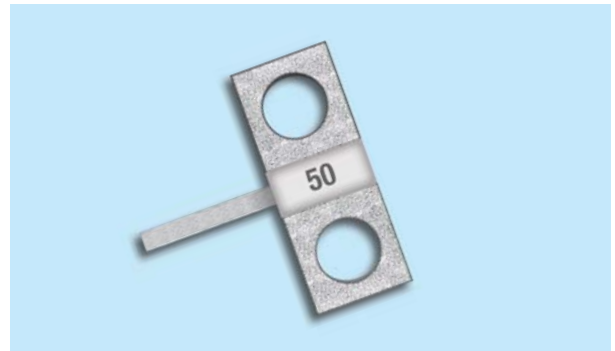
VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

RoHS Compliant



mm (inches)

For Part Number Code, see page 14.

Terminations

FLANGE MOUNT TERMINATION – P/N: RPA0515T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω $\pm$ 5% standard
(contact factory for custom values)

Power: 60 Watts

Frequency: DC to 6.0 GHz

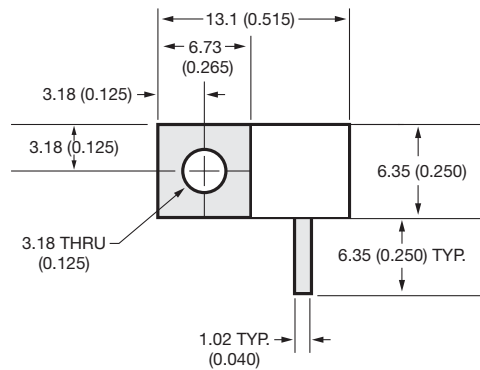
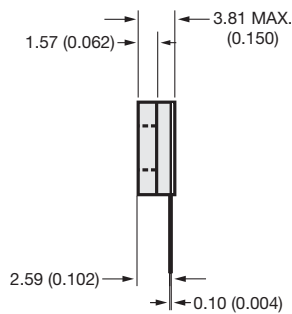
VSWR: 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

LRoHS Compliant



mm (inches)

FLANGE MOUNT TERMINATION – P/N: RPA0516T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: 50 Ω $\pm$ 5% standard
(contact factory for custom values)

Power: 60 Watts

Frequency: DC to 6 GHz

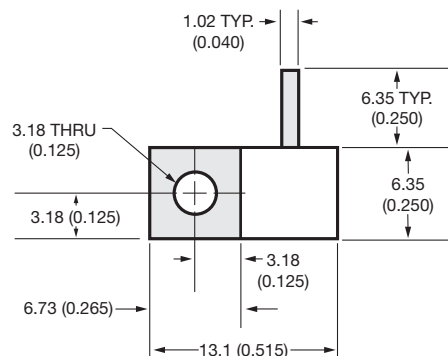
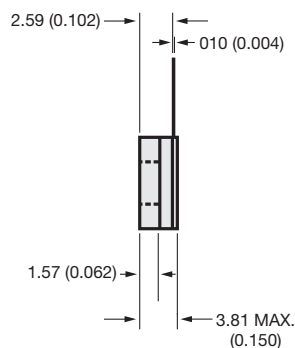
VSWR: 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

RoHS Compliant



mm (inches)

For Part Number Code, see page 14.

Terminations

FLANGE MOUNT TERMINATION – P/N: RPA0517T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50 \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 60 Watts

Frequency: DC to 6 GHz

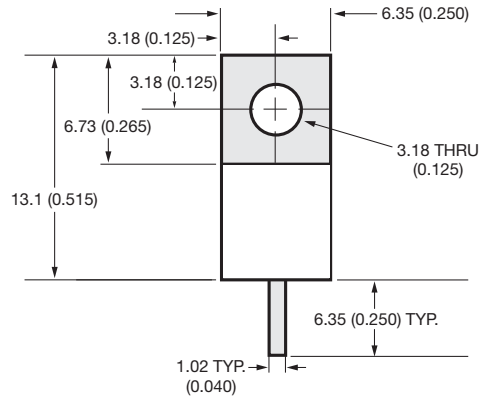
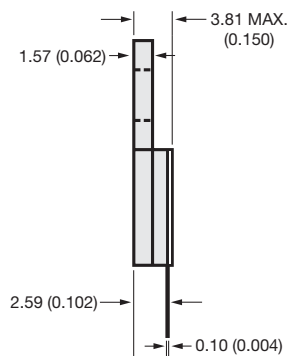
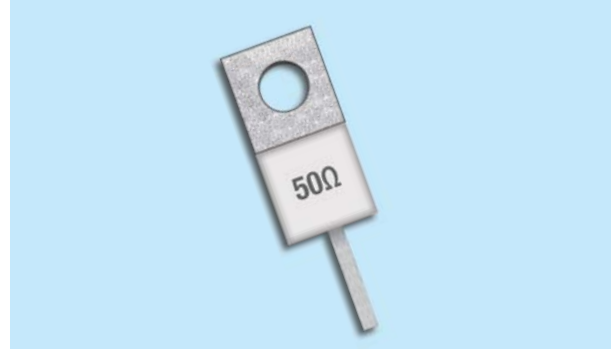
VSWR: 1.20:1 @ 4 GHz, 1.30:1 @ 6 GHz

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

RoHS Compliant



mm (inches)

FLANGE MOUNT TERMINATION – P/N: RPA0560T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50 \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 75 Watts

Frequency: DC to 4 GHz

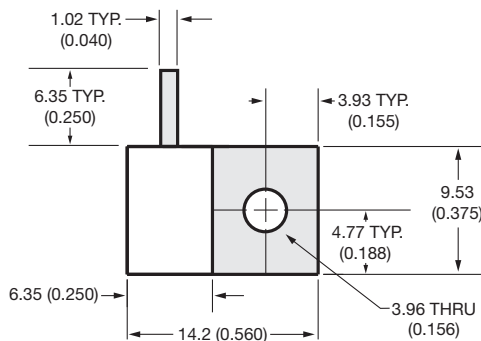
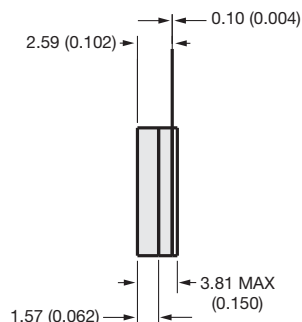
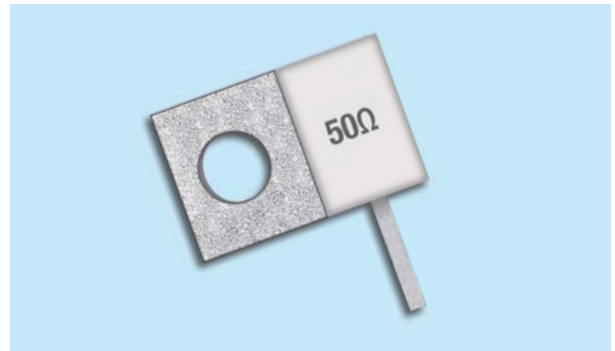
VSWR: 1.25:1

Typical Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

RoHS Compliant



mm (inches)

For Part Number Code, see page 14.

Terminations

FLANGE MOUNT TERMINATION – P/N: RPA0561T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50\ \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 75 Watts

Frequency: DC to 4.0 GHz

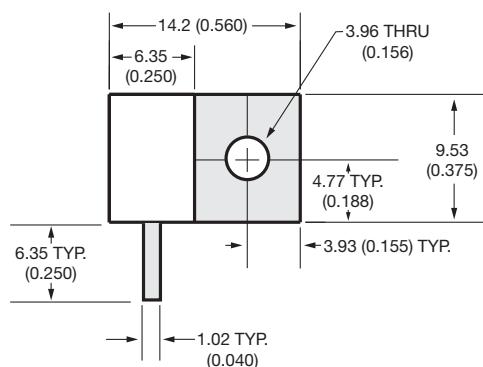
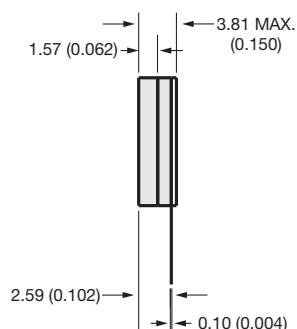
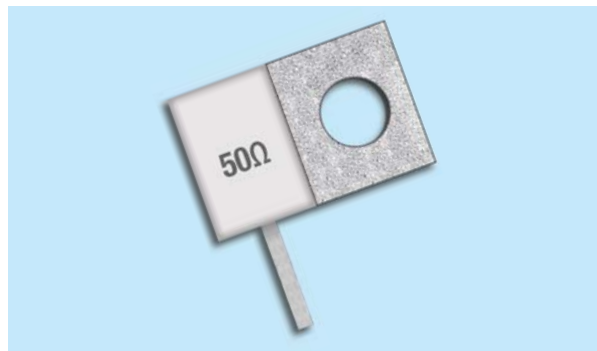
VSWR: 1.25:1

Typical Operating Temperature Range: -55°C to $+150^{\circ}\text{C}$

Temperature Coefficient: $<150\ \text{ppm}/^{\circ}\text{C}$

Tabs: Silver

RoHS Compliant



mm (inches)

FLANGE MOUNT TERMINATION – P/N: RPA0800T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50\ \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 50 Watts

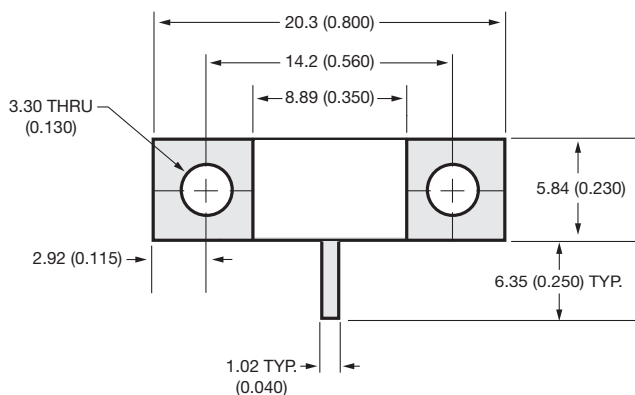
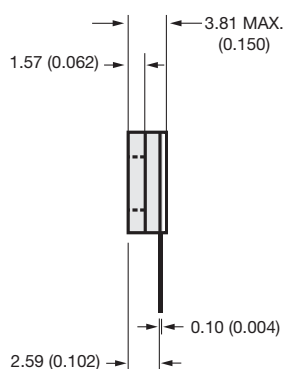
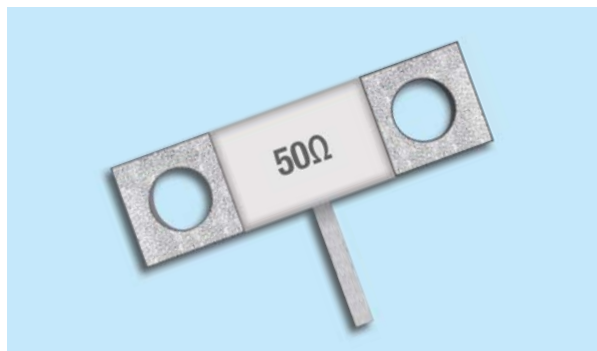
Frequency: DC to 6 GHz

VSWR: 1.10:1 @ 4.5 GHz, 1.18:1 @ 6.0GHz

Operating Temperature Range: -55°C to $+150^{\circ}\text{C}$

Tabs: Silver

RoHS Compliant



mm (inches)

For Part Number Code, see page 14.

Terminations

FLANGE MOUNT TERMINATION – P/N: RPA0870T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50\ \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 100 Watts

Frequency: DC to 4.0 GHz

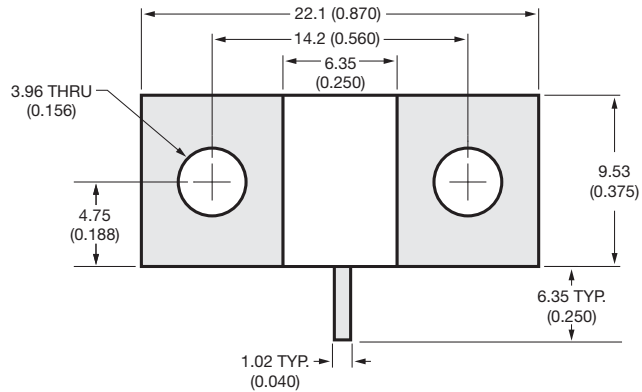
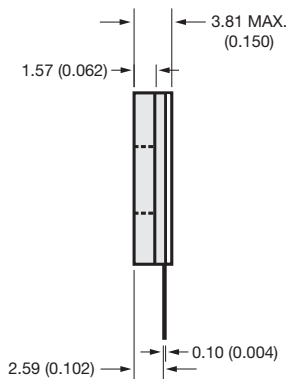
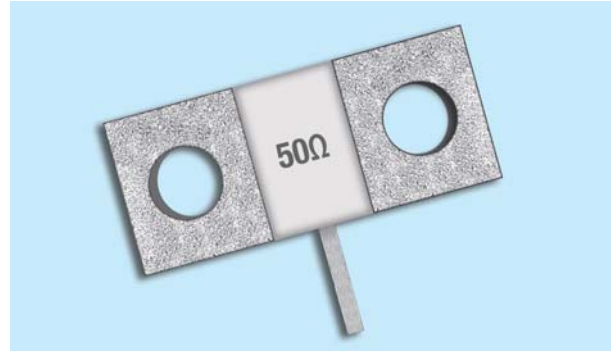
VSWR: 1.20:1

Typical Operating Temperature Range: -55°C to $+150^{\circ}\text{C}$

Temperature Coefficient: $<150\ \text{ppm}/^{\circ}\text{C}$

Tabs: Silver

RoHS Compliant



mm (inches)

FLANGE MOUNT TERMINATION – P/N: RPA0300T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50\ \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 20 Watts

Frequency: DC to 6 GHz

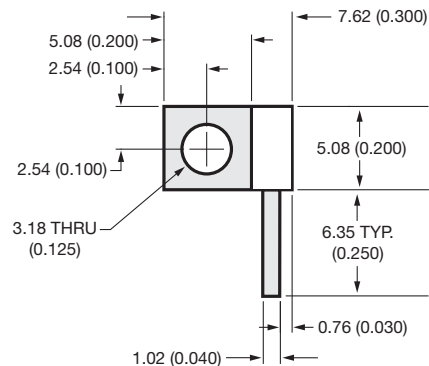
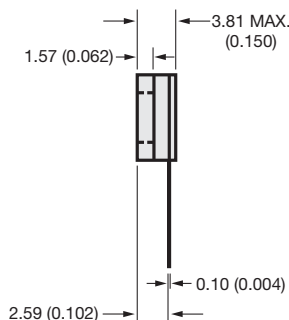
VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz,

Operating Temperature Range: -55°C to $+150^{\circ}\text{C}$

Temperature Coefficient: $<150\ \text{ppm}/^{\circ}\text{C}$

Tabs: Silver

RoHS Compliant



mm (inches)

For Part Number Code, see page 14.

Terminations

FLANGE MOUNT TERMINATION – P/N: RPA0301T0050JNBK

ELECTRICAL SPECIFICATIONS

Nominal Impedance: $50\ \Omega \pm 5\%$ standard
(contact factory for custom values)

Power: 20 Watts

Frequency: DC to 6 GHz

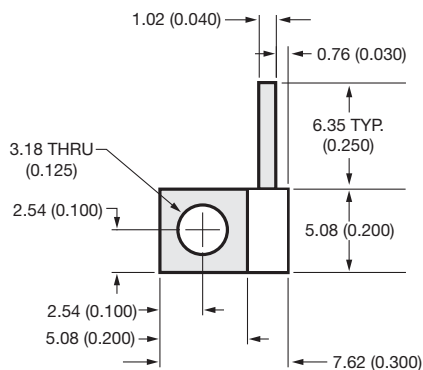
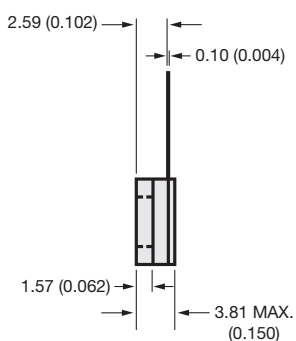
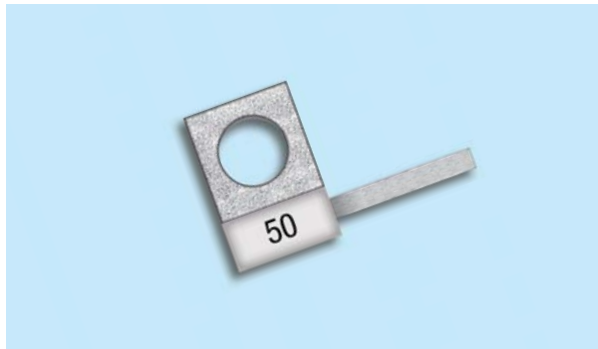
VSWR: 1.15:1 @ 4 GHz, 1.25:1 @ 6 GHz,

Operating Temperature Range: -55°C to +150°C

Temperature Coefficient: <150 ppm/°C

Tabs: Silver

RoHS Compliant



mm (inches)

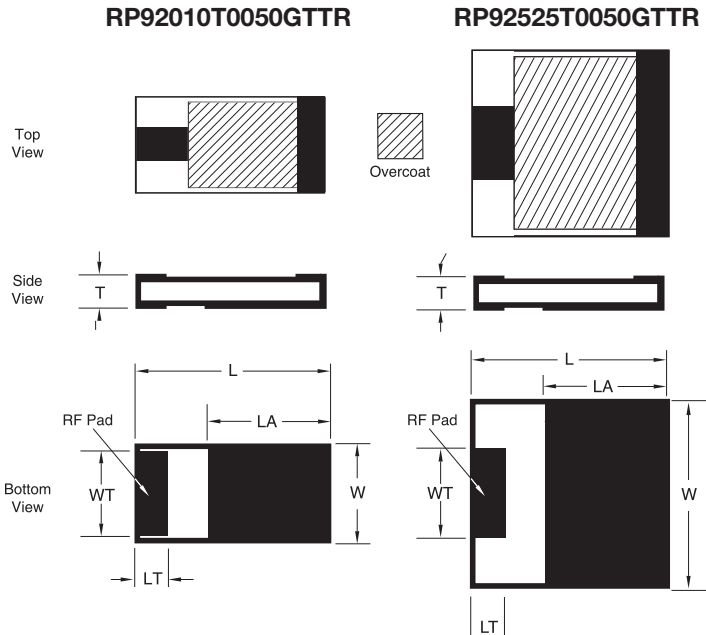
High Power Resistive Products



Terminations

SURFACE MOUNT CHIP TERMINATIONS – RP9 SERIES GENERAL SPECIFICATIONS

Nominal Impedance: 50 Ω
Resistive Tolerance: $\pm 2\%$ standard
Operating Temp Range: -55°C to +150°C
Temperature Coefficient: ± 150 ppm/°C
Resistive Elements: Tantalum, Thin Film Processed
Substrate Material: Aluminum Nitride
Terminals: Silver over Nickel
RoHS Compliant
Tape and Reel Specifications: See Page 38



mm (inches)

AVX Part Number	W ± 0.25 (0.010)	L ± 0.25 (0.010)	T ± 0.13 (0.005)	LT ± 0.13 (0.005)	WT ± 0.13 (0.005)	LA ± 0.13 (0.005)	Frequency Range (GHz)	VSWR (Typ.)	Power Max** (Watts)
RP92010T0050GTTR	2.54 (0.100)	5.08 (0.200)	1.02 (0.040)	1.02 (0.040)	2.29 (0.090)	2.92 (0.115)	DC - 3.0	1.20:1	10W
RP92525T0050GTTR	6.22 (0.245)	6.22 (0.245)	1.02 (0.040)	0.76 (0.030)	3.18 (0.125)	4.32 (0.170)	DC - 4.0	1.25:1	20W

** Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100°C; maximum rated power applied.

HOW TO ORDER

RP9 **2010** **T** **0050** **G** **T** **TR**

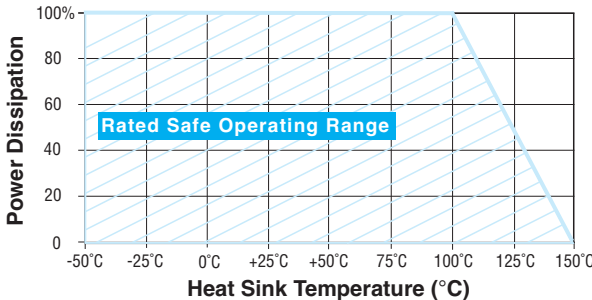
AVX Series **Case Size** **Type** **Value** **Tolerance** **Terminal** **Packaging**

See chart above
 T = Termination
 0050 = 50 Ω
 J = $\pm 5\%$
 G = $\pm 2\%$
 T = Silver over Nickel
 TR = Tape & Reel



Contact factory for custom ratings and sizes.

POWER DERATING



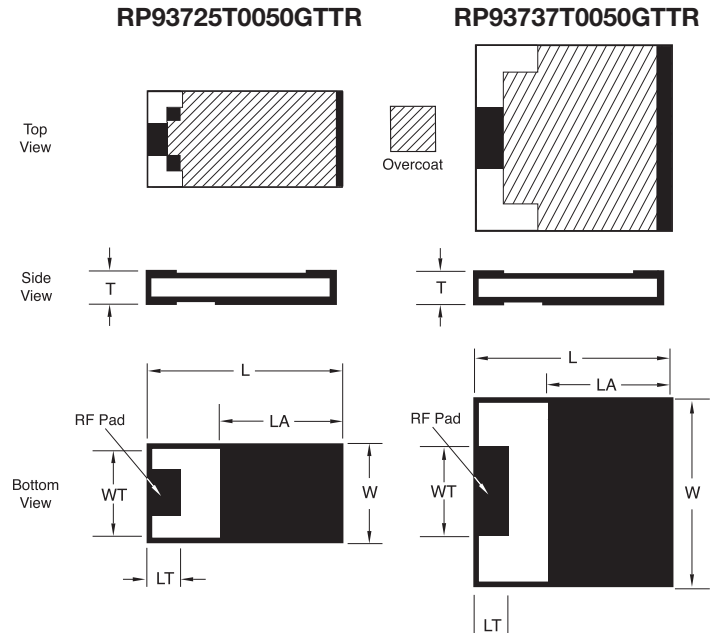
High Power Resistive Products



Terminations

SURFACE MOUNT CHIP TERMINATIONS – RP9 SERIES GENERAL SPECIFICATIONS

Nominal Impedance: 50 Ω
Resistive Tolerance: $\pm 2\%$ standard
Operating Temp Range: -55°C to $+150^{\circ}\text{C}$
Temperature Coefficient: ± 150 ppm/ $^{\circ}\text{C}$
Resistive Elements: Tantalum, Thin Film Processed
Substrate Material: Aluminum Nitride
Terminals: Silver over Nickel
RoHS Compliant
Tape and Reel Specifications: See Page 38



mm (inches)

AVX Part Number	W ± 0.25 (0.010)	L ± 0.25 (0.010)	T ± 0.13 (0.005)	LT ± 0.13 (0.005)	WT ± 0.13 (0.005)	LA ± 0.13 (0.005)	Frequency Range (GHz)	VSWR (Typ.)	Power Max** (Watts)
RP93725T0050GTTR	6.35 (0.250)	9.53 (0.375)	1.02 (0.040)	1.27 (0.050)	3.18 (0.125)	6.60 (0.260)	DC - 2.2	1.20:1	30W
RP93737T0050GTTR	9.40 (0.370)	9.40 (0.370)	1.02 (0.040)	1.27 (0.050)	3.18 (0.125)	6.99 (0.275)	DC - 3.0	1.25:1	40W

** Test Condition: Chip soldered to a via patch on a 30-mil-thick Rogers RO4350 board; Land surfaces at 100°C ; maximum rated power applied.

HOW TO ORDER

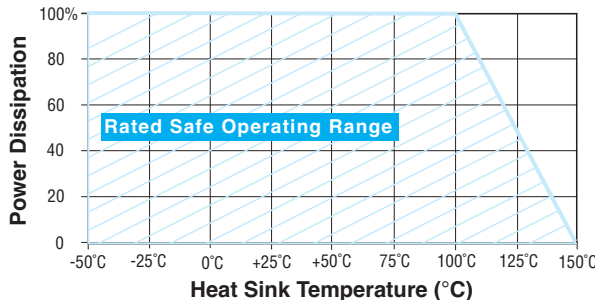
RP9 **2010** **T** **0050** **G** **T** **TR**

AVX Series **Case Size** See chart above **Type** T = Termination **Value** 0050 = 50 Ω **Tolerance** J = $\pm 5\%$ G = $\pm 2\%$ **Terminal** T = Silver over Nickel **Packaging** TR = Tape & Reel



Contact factory for custom ratings and sizes.

POWER DERATING



Mouser Electronics

Authorized Distributor

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[Kyocera AVX:](#)

[RPA0516T0050J01N](#) [RP93725T0050GTTR\500](#) [RP92010T0050JTTR](#)