ORDERING INFORMATION

PART IDENTIFIER: SMT2010F

ASSEMBLY DWG: 1101894

SPECIFICATIONS

1. ELECTRICAL:

Impedance:	50 Ω Nominal.
Frequency:	DC - 2 GHz.
VSWR:	1.25:1 Max.
Input Power:	30 Watts. Chip Soldered to Mounting Surface. Mounting Surface Temperature Maintained At 100°C Maximum. Apply Linear De-Rating of Input Power To 0 Watts At 150°C.

2. ENVIRONMENTAL:

Non-Operating:	-55°C To +150°C.
Operating:	-55°C To +150°C.

3. MARKING:

Unit Marking:	None.

4. QUALITY ASSURANCE:

Sample Inspect Per ANSI/ASQC Z1.4 General Inspection, Level II, AQL = 1.0.

Visual And Mechanical Per 824W154.

Dc Resistance: 50 Ω ± 5 %.

Data Requirements:

No Test Data Required for Customer.

Data Retention – 24 Months.

5. PACKAGING:

Standard Packaging:	Standard Packing Per 755W002.

6. MECHANICAL:

Thermal Impedance (R_Θ):

1.667°C / Watt R_θ From Resist Film to Mounting Surface Directly Under Center of Chip. Chip Soldered Directly to Mounting Surface.

AMERICAS
Sales: Focom.uscsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

EUROPE
Sales: Focom.emeacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

ASIA
Sales: Focom.asiacsr@smithsinterconnect.com
Technical Support: Focom.techsupport@smithsinterconncet.com

Film Temperature (T_F):

200°C Absolute Maximum Film Temperature. De-Rate To 150°C Maximum Film Temperature for All Military/High-Reliability Applications.

Thermal:

Determine Maximum Mounting Surface Temperature by Applying the Following Formula:

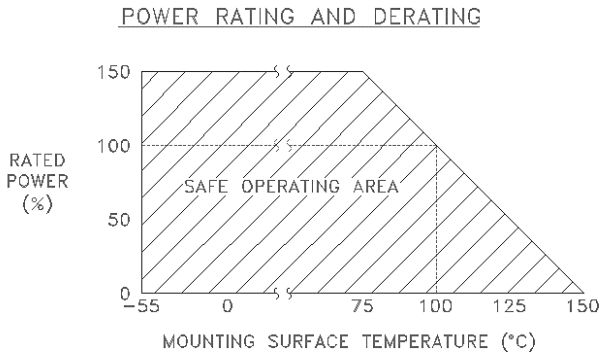
$T_S = T_F - (P_{MAX} \times R_\Theta)$

Where:

T_S = Maximum Mounting Surface Temperature
T_F = Maximum Film Temperature
P_{MAX} = Maximum Applied Input Power
R_Θ = Chip Thermal Impedance.

Mechanical Specifications

Workmanship:	PER MIL-PRF-55342.
Substrate:	Beryllia, ASTM F356.
Terminal & Ground Plane:	Thick Film, Lead Free Plating, RoHS Compliant.
Resist:	Thick Film.



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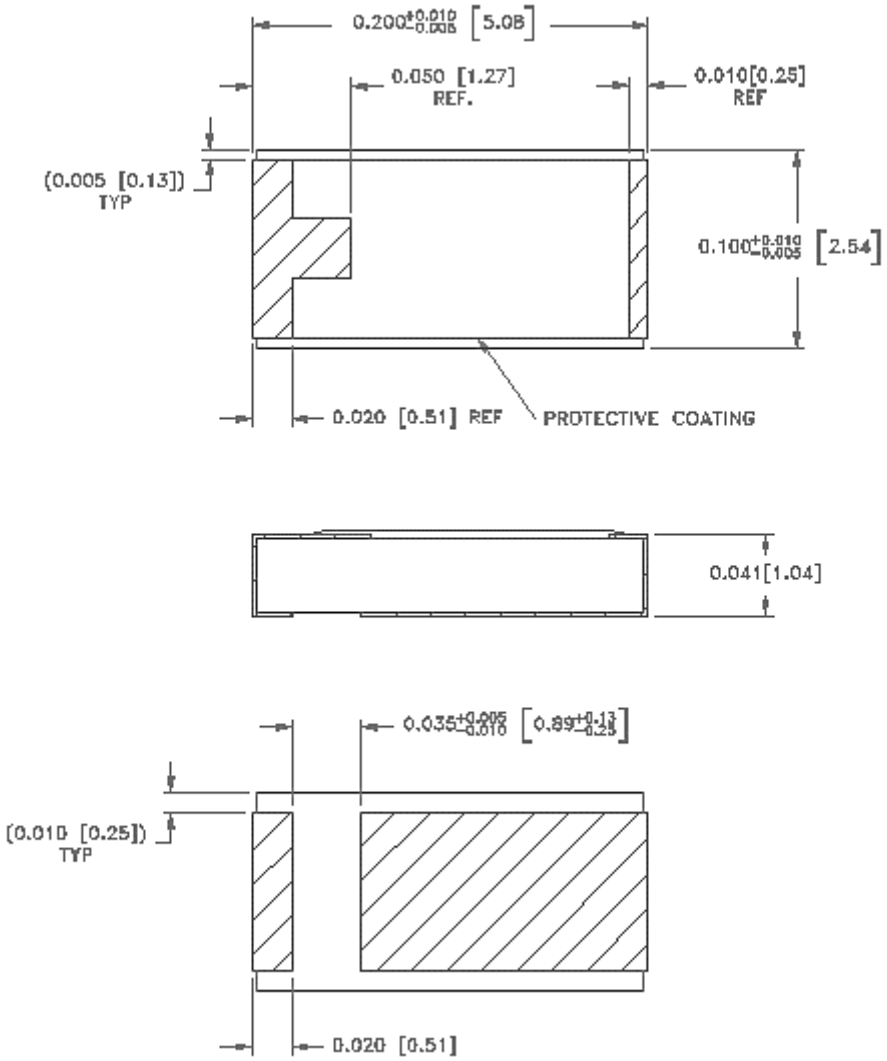

Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005.

Metric equivalents given in [mm] are for reference information only.

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