ORDERING INFORMATION

PART IDENTIFIER: **SMT2010ALN**

ASSEMBLY DWG: **1101474**

SPECIFICATIONS

1. ELECTRICAL:

Impedance:	50 Ω Nominal.
Frequency:	DC - 2 GHz.
VSWR:	1.25:1 MAX.
Input Power:	20 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 pack per 755W002.

6. MECHANICAL:

Workmanship: PER MIL-PRF-55342

Thermal Impedance (RΘ):

2.500°C / WATT RΘ from resist film to mounting surface directly under center of chip. Chip soldered directly to mounting surface.

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Film Temperature (TF):

200°C Absolute maximum film temperature. de-rate to 150°C maximum film temperature for all military/high-reliability applications.

Thermal:

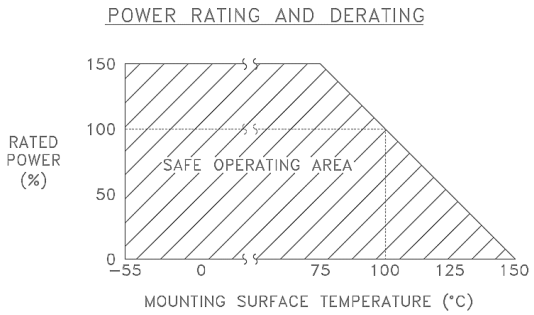
Determine maximum mounting surface temperature by applying the following formula:

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

Where:

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

Substrate:	Aluminum Nitride, MIL-I-10
Terminals:	Thick Film, Nickel Barrier, Solder Plated.
Resist:	Thick Film



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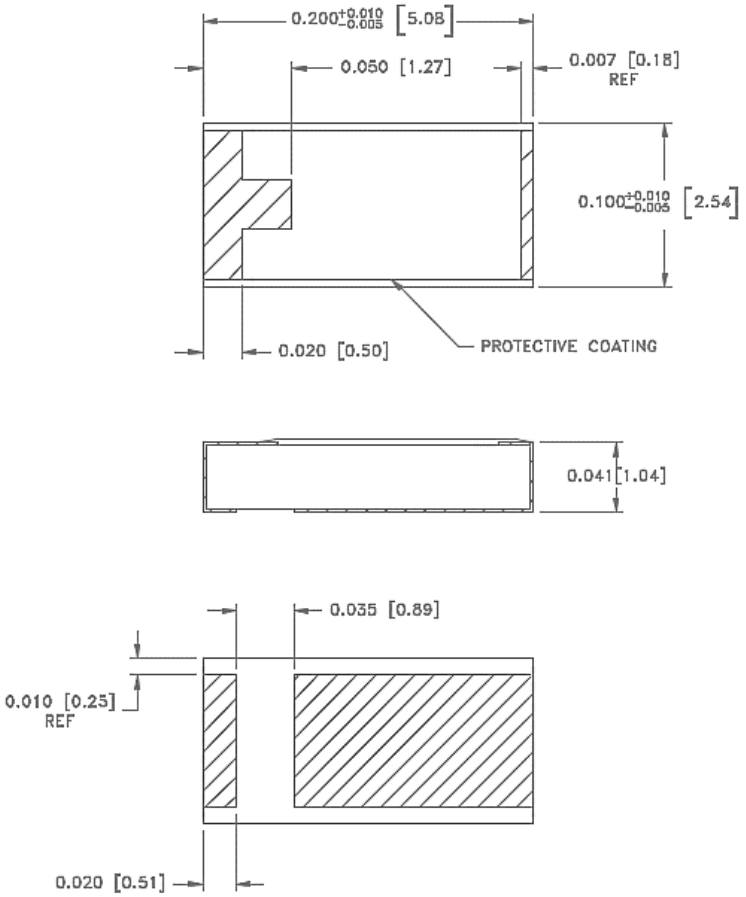

Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.010.

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

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