ORDERING INFORMATION

PART IDENTIFIER: **SMT3725ALNF**

ASSEMBLY DWG: **1102024**

SPECIFICATIONS

1. ELECTRICAL:

Impedance:	50 Ω Nominal.
Frequency:	DC – 2 GHz.
VSWR:	1.25:1 Max.
Input Power:	80 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 pack per 755W002.

6. MECHANICAL:

Workmanship: PER MIL-PRF-55342.

Thermal Impedance (R_{Θ}):

0.625°C / Watt R_{θ} From Resist Film to Mounting Surface Directly Under Center of Chip. Chip Soldered Directly to Mounting Surface.

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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:

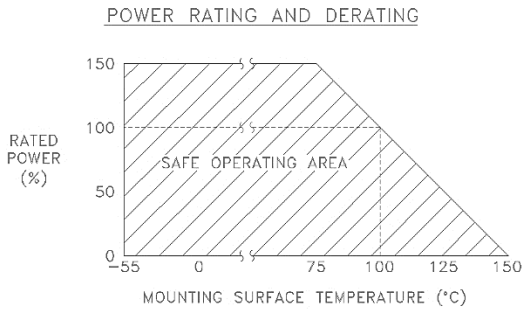
Determine maximum mounting surface temperature by applying the following formula:

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

Where:

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

Substrate:	Material-Aluminum Nitride, MIL-I-10.
Terminals:	Thick Film, Lead Free Plating. RoHS Compliant.
Resist:	Material- Thick Film.



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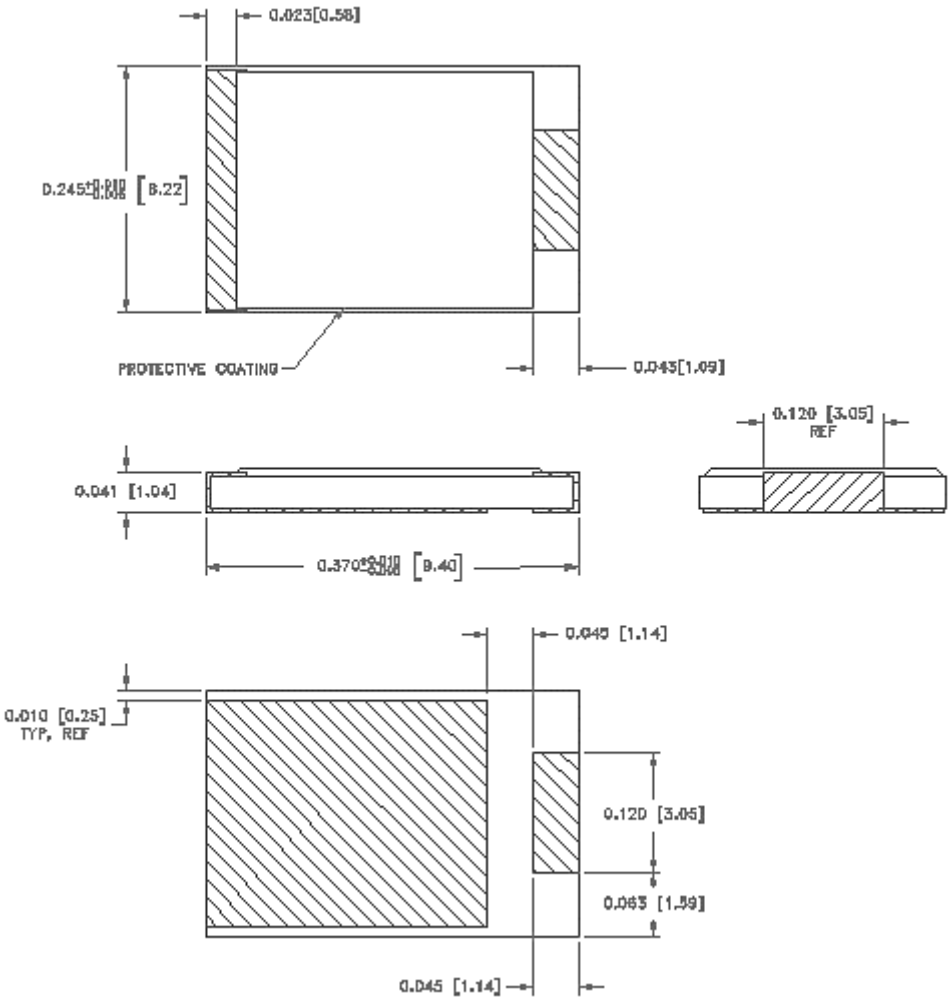

Unless Otherwise Specified: TOLERANCE: X.XXX = ± 0.005.

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