

MTE030X06

High-Power Termination



Applications

- 1, Applications using mobile networks, broadcast
- 2, High power amplifiers
- 3, Isolator, Circulator
- 4, Military

Features

- 1, Frequency range DC~6000 MHz
- 2, Substrate Material: ALN
- 3, Excellent high-power Capacity
- 4, RoHS Compliance (Pb-Free)

Description

MTE030X06 is a 30W termination with high-power capacity and stable performance in different temperatures. The ALN, high conductivity metal conductor (Ag), and gold (Au) plating enable MTE030X06 to low return loss and improve durability for thermal stabilization and electricity. MTE030X06 is suited for applications using GSM, UMTS, LTE and 5G communications equipment, requiring high power. All components are 100% RF tested.

Characteristics

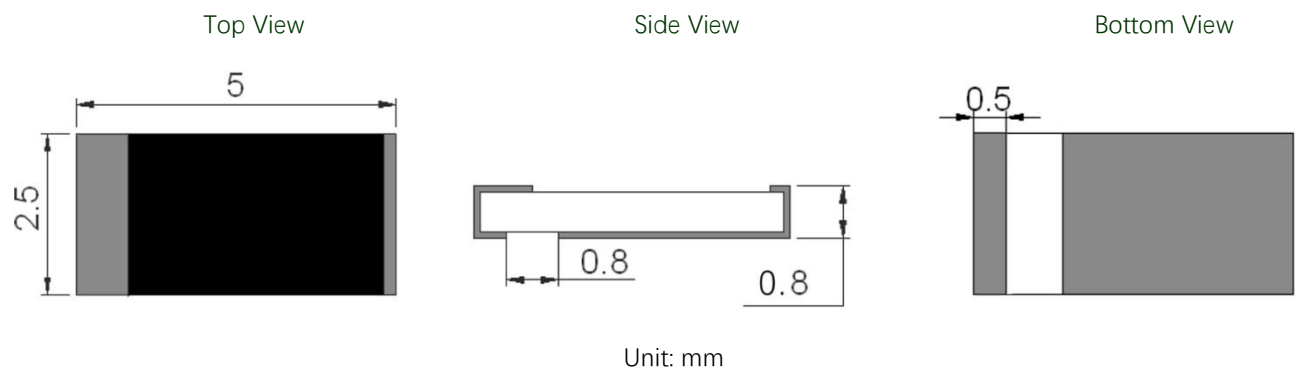
Table 1. MTE030X06 Characteristics

Item	Min.	Type	Max.	Unit
Frequency Range	DC		6000	MHz
VSWR (:1)		1.20	1.30	:1
Operating Temp.	-55		+155	°C
Temp. Coefficient	-100		+100	ppm/°C
Power			30	W

All the above data are based on specified demo board and tested in 25° environment.

Outline Drawing

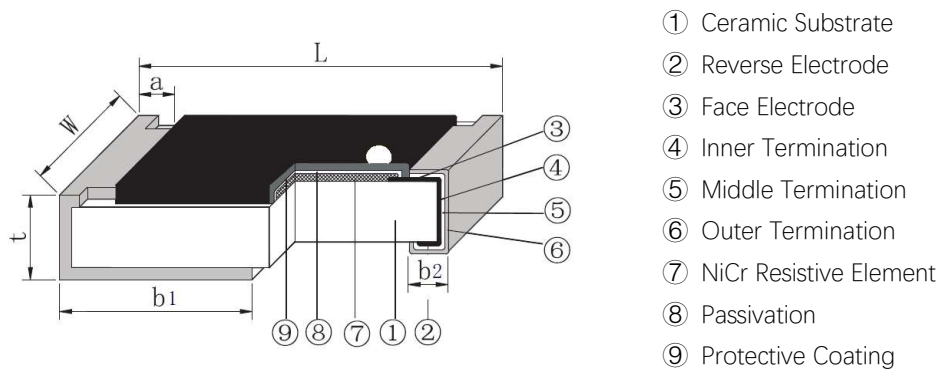
Figure1. MTE030X06 Outline Drawing



All Use For RF & Microwave

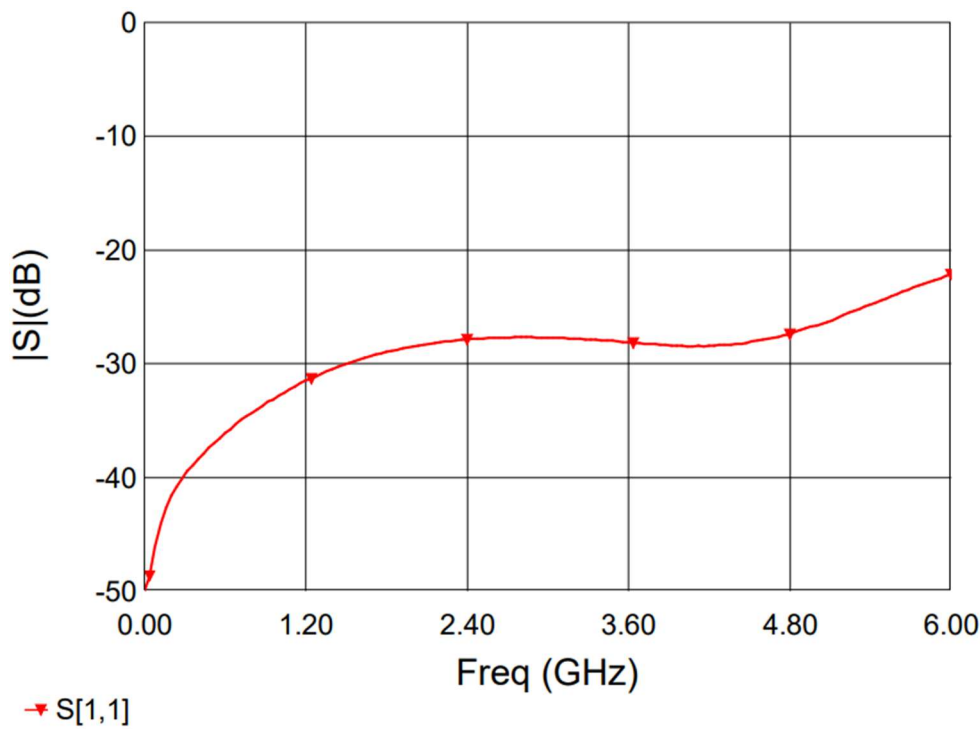
Product Construction

Figure2. MTE020X06 Product Construction



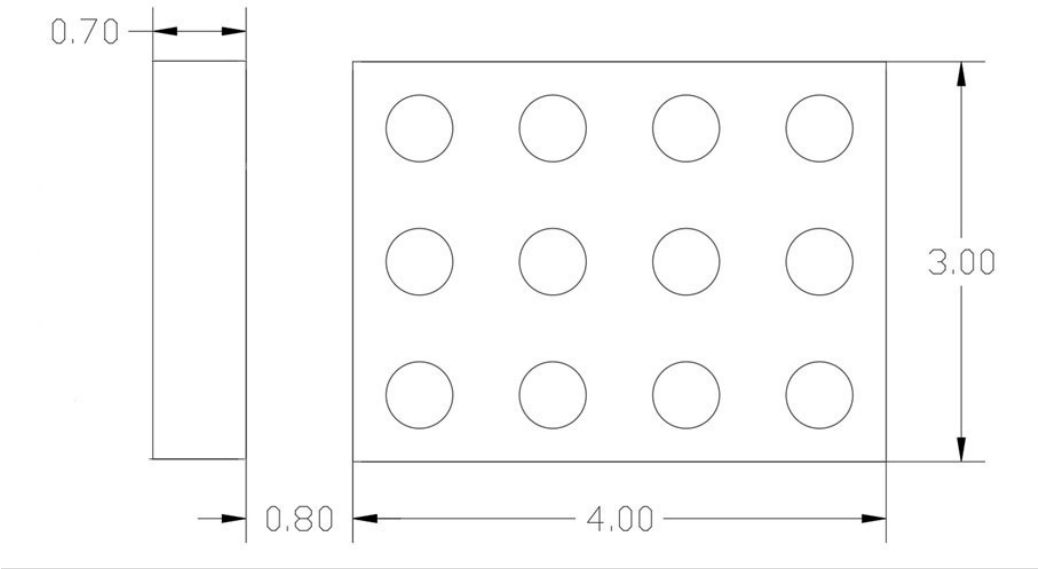
Typical Performance (25°C)

Figure 3. MTE020X06 Return Loss (S11)



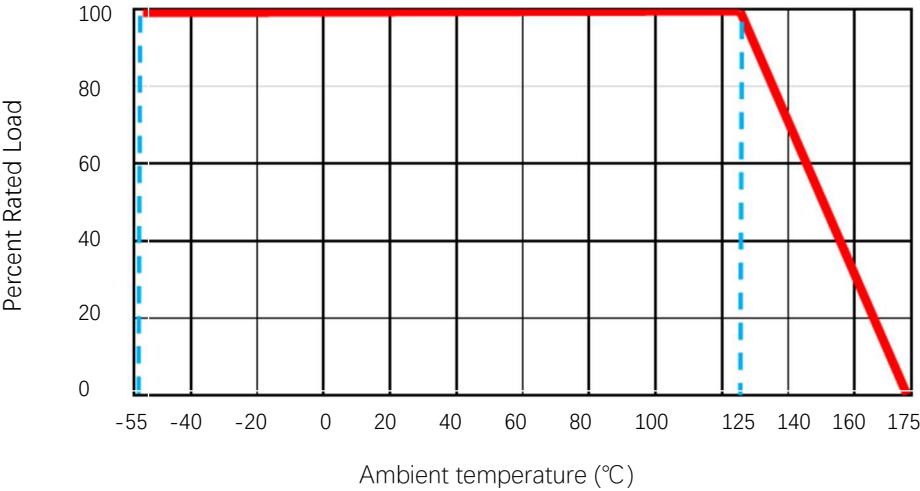
Recommended PCB Layout

Figure 4. MTE030X06 Recommended PCB Layout



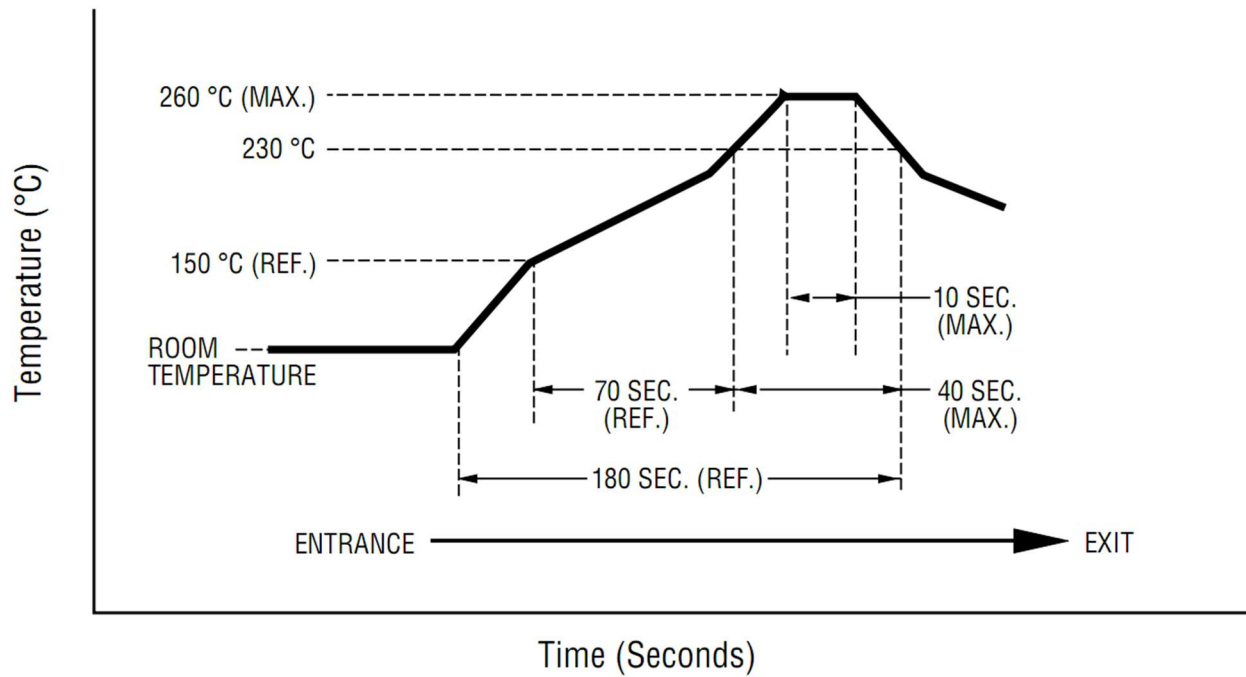
Derating Curve

Figure 5. MTE030X06 Derating Curve



REFLOW PROFILE

Figure 6. MTE030X06 Thermal Reflow Profile



MTE030X06

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Revision	Description	Date
Rev0	Preliminary	2023/5/29