

MTE012M06

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

MTE012M06 is a 12W termination with high-power capacity and stable performance in different temperatures. The ALN, high conductivity metal conductor (Ag), and gold (Au) plating enable MTE012M06 to low return loss and improve durability for thermal stabilization and electricity. MTE012M06 is suited for applications using GSM, UMTS, LTE and 5G communications equipment, requiring high power. All components are 100% RF tested.

Characteristics

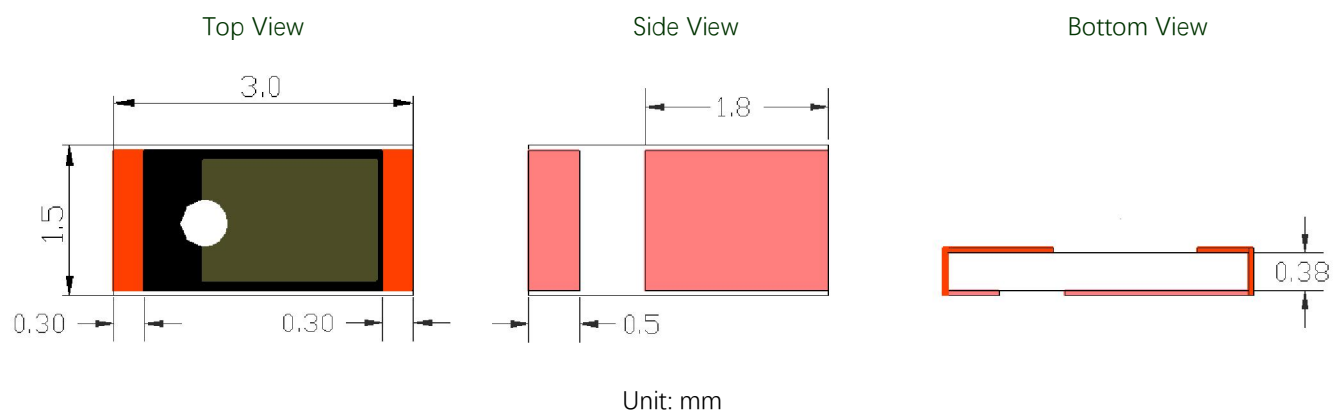
Table 1. MTE012M06 Characteristics

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			12	W

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

Outline Drawing

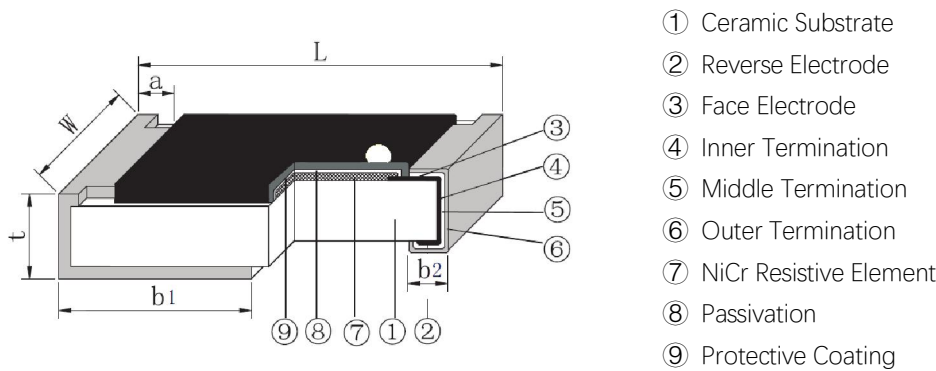
Figure1. MTE012M06 Outline Drawing



All Use For RF & Microwave

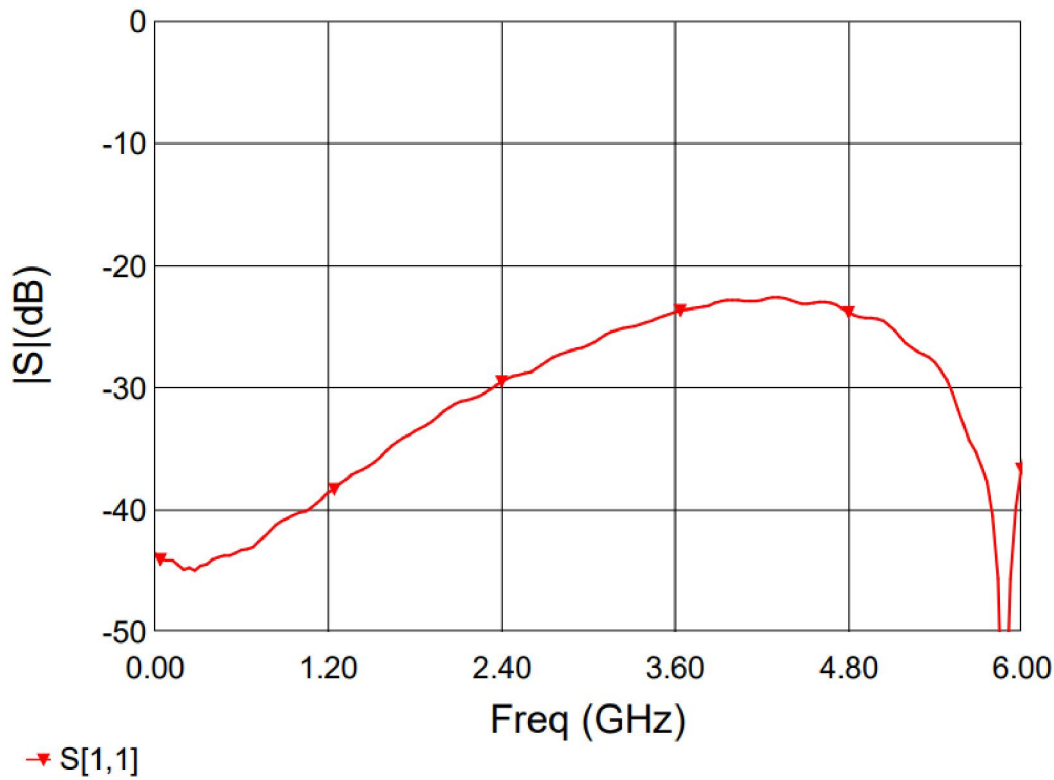
Product Construction

Figure2. MTE012M06 Product Construction



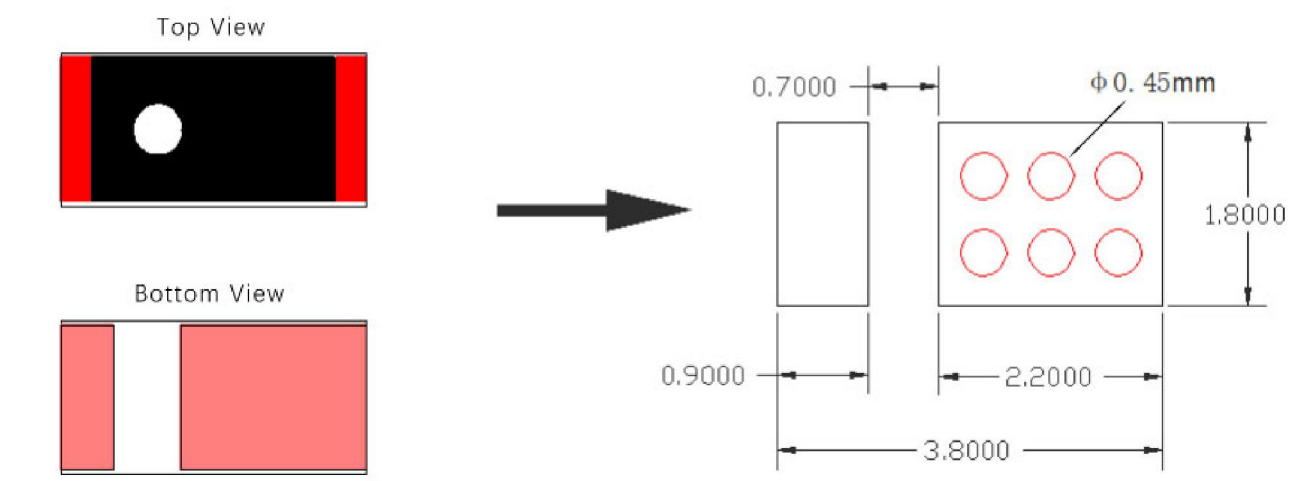
Typical Performance (25°C)

Figure 3. MTE012M06 Return Loss (S11)



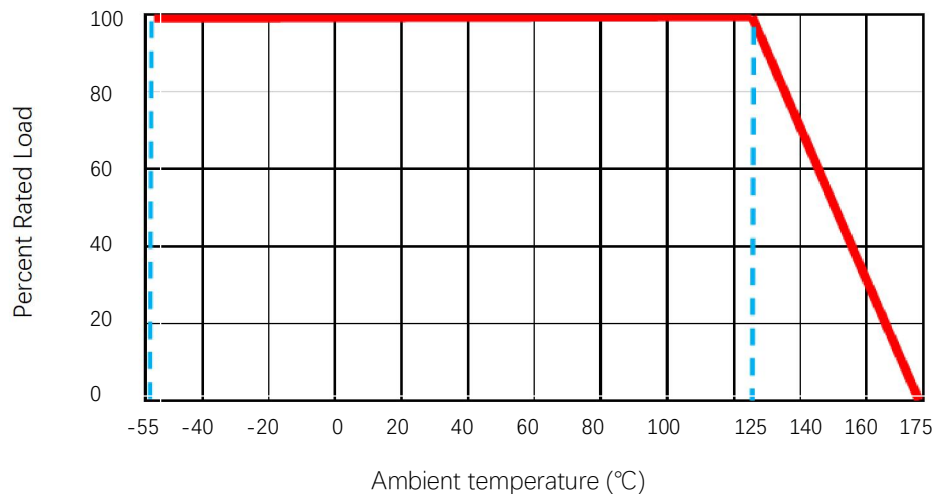
Recommended PCB Layout

Figure 4. MHC09X02 Recommended PCB Layout



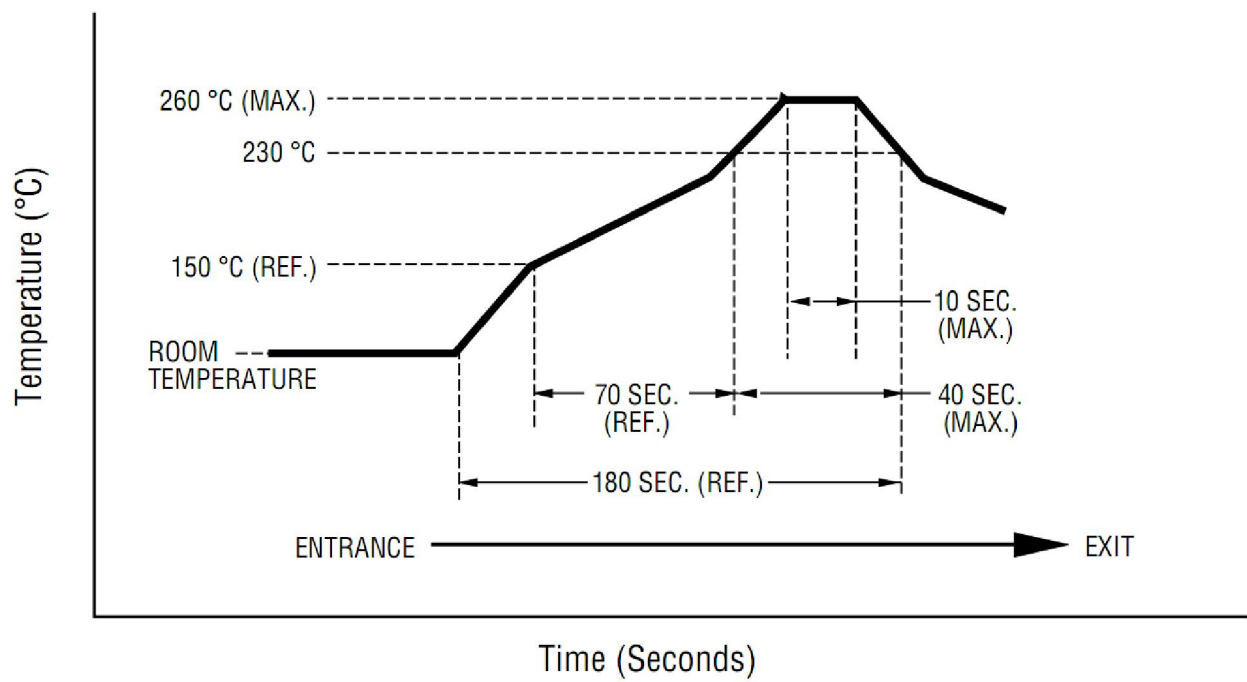
Derating Curve

Figure 5. MTE012M06 Derating Curve



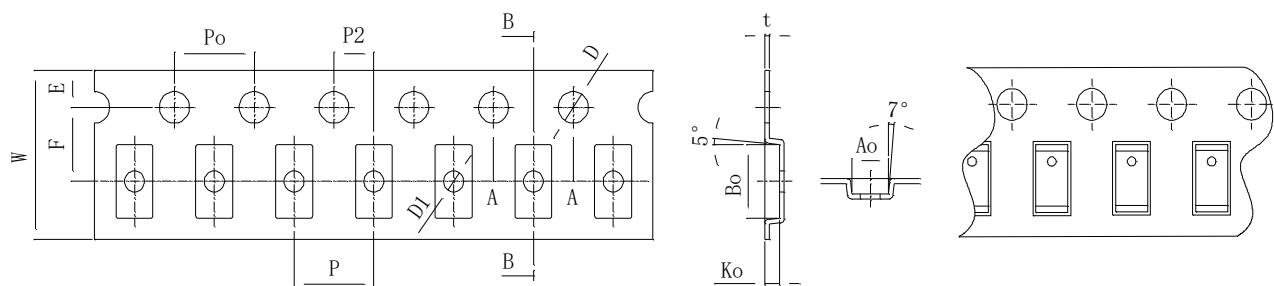
REFLOW PROFILE

Figure 6. MTE012M06 Thermal Reflow Profile



Packaging and Ordering Information

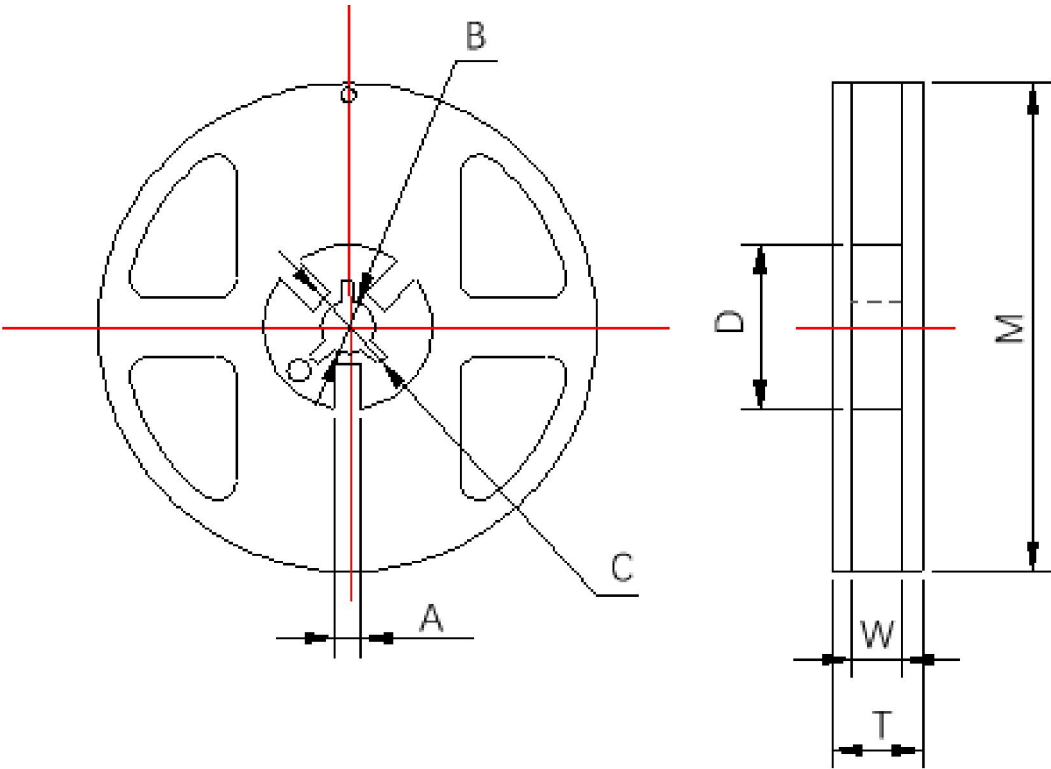
Figure 6. MTE012M06 Packaging Information



W	P	E	F	P2	D
8.00±0.10	4.0±0.10	1.75±0.10	3.50±0.05	2.00±0.05	1.50±0.10
A0	b0	D1	P0	K0	t
1.85±0.10	3.50±0.10	1.00±0.10	4.00±0.10	0.73±0.10	0.23±0.05

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M	W	T	A	B	C	D
178±2.0	9.5±1.0	12.5±1.5	2.0±0.5	13.0±0.5	21.0±0.5	58.0±2.0

Table 2. MTE012M06 Ordering Information

Device	Package	Reel	Shipping
MTE012M06	5.0*2.5mm	7"	5000 Reel

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Revision	Description	Date
Rev0	Preliminary	2023/5/29

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