

RF Transformer

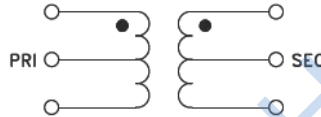
Features

- 1 : 1 impedance transformer.
- SMT part.
- Packaging 1000pcs per reel.
- used in 50ohm systems.
- Weld connected.
- 260°C reflow compatible
- ROHS COMPLIANT and lead free

Applications

- Impedance matching
- Baluns

SCHEMATIC



HT-ADT1-1+



50Ω 0.15 to 300 MHz

Electrical Specifications: TA=25°C, Zo=50Ω

Parameter	Test Conditions	Units	Min.	Typ.	Max.
Insertion Loss	0.5-90MHz	dB	---	0.4	1.0
	0.4-200MHz	dB	---	0.9	2.0
	0.3-300MHz	dB	---	1.2	3.0
Input return loss	0.3-500MHz	dB	10	20	
Phase	0.3-150MHz	Degree	---	±1.0°	---
	150-300MHz	Degree	---	±2.0°	---
Amplitude	0.3-150MHz	dB	---	±0.15	---
	150-300MHz	dB	---	±0.3	---
RF Power Rating (max)			250mw		
DC Current Rating (max)			30mA		
Test Impedance (50Ω,75Ω, etc.)			50OHM		
Operating Temperature			-20°C to 85°C		
Storage Temperature			-55°C to 100°C		

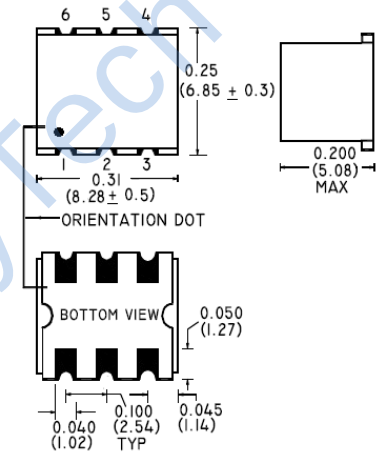
Maximum Ratings

Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.25W
DC Current	30mA
Permanent damage may occur if any of these limits are exceeded.	

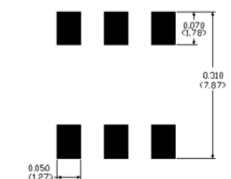
Pin Connections

PRIMARY DOT	3
PRIMARY	1
PRIMARY CT	2
SECONDARY DOT	4
SECONDARY	6
SECONDARY CT	5

Outline Drawing

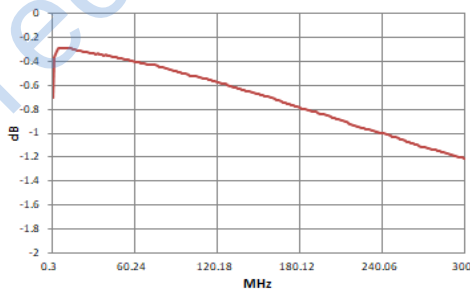


PCB Land Pattern

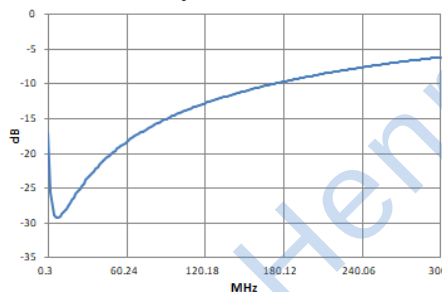


Tolerance ± 0.20mm

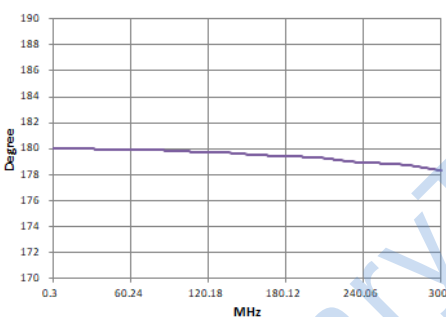
Insertion Loss



Input Return Loss



Phase



Amplitude

