

RF Balun Transformer

EBE4813-E177186

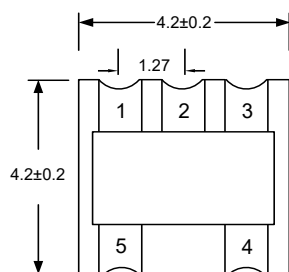
2025-10-31 Rev.3



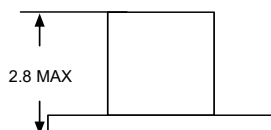
75Ω 1:1 Transmission Line Transformer

4.5-3000 MHz

Outline Drawing(mm)

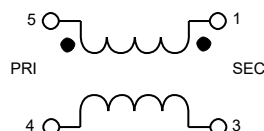


Top View

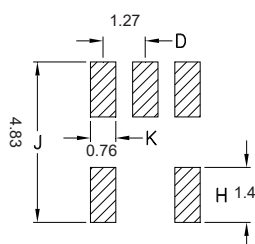


Electrical structure

Fig E



Recommended layout(mm)



Pin Connections

Input	4
Output 1	3
Output 2	1
Ground	5
Not Used	2

Features

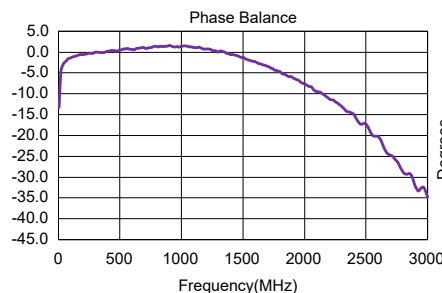
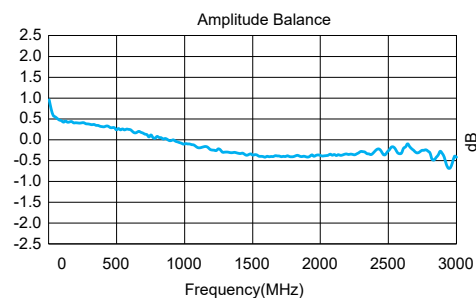
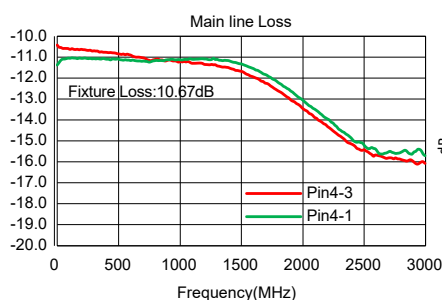
- RF Power, 250mW Max
- DC Current, 30mA Max
- 260°C Reflow Compatible
- RoHS compliant and lead free
- Operating temperature range: -40 °C to +100 °C
- Storage temperature range: -55 °C to +125 °C

Applications

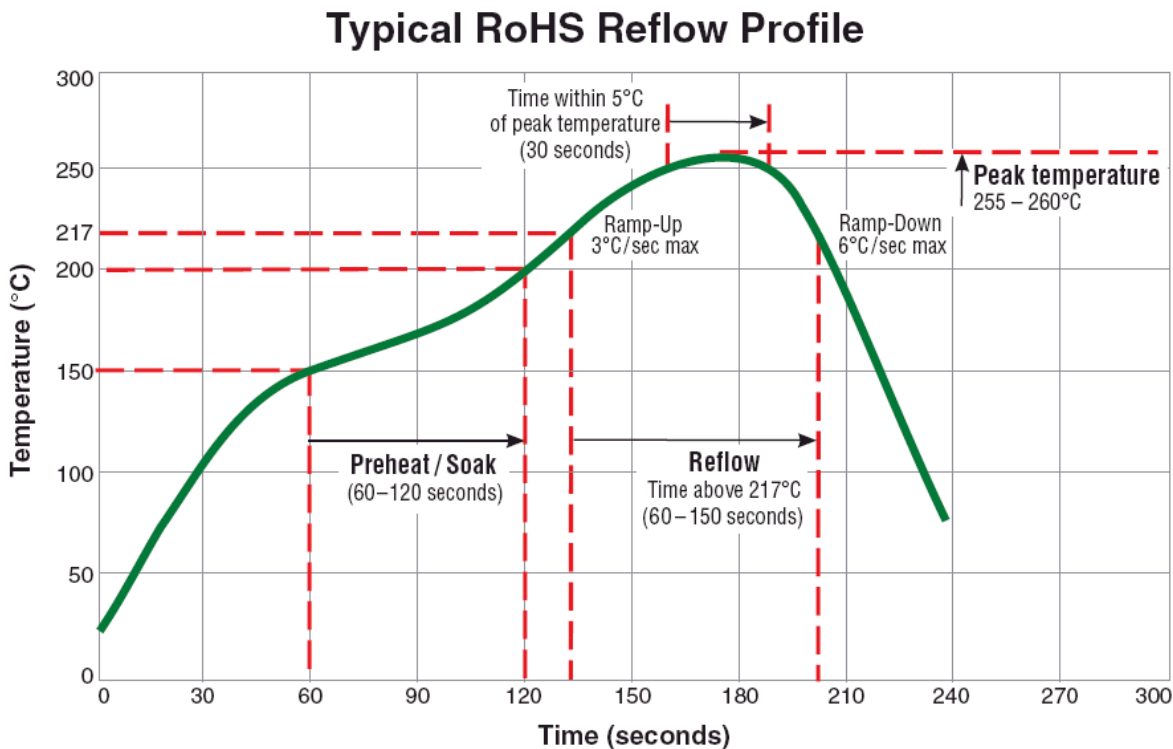
- For Dccsis 3.0&4.0Cable Modem.
- For Wideband Push-pull Amplifiers.
- For CATV Amplifiers Module & Set top box.
- For CATV Optical Receivers and Amplifiers.
- For VHF/UHF Transmitters and Push-pull Amplifiers.

Electrical Specifications:TA=25°C, 0dBm, Z0=75Ω

Parameter	Test Conditions	Units	Min	Typ	Max
Main line Loss (Pin4-3)	4.5-1000MHz	dB	—	0.1	1.0
	1000-2000MHz			0.7	2.0
	2000-2500MHz			2.0	5.0
	2500-3000MHz			4.2	6.5
Main line Loss (Pin4-1)	4.5-1000MHz	dB	—	0.3	1.0
	1000-2000MHz			0.3	2.0
	2000-2500MHz			2.0	5.5
	2500-3000MHz			5.3	6.5
Amplitude Balance	4.5-20MHz	dB	0.0	0.8	1.2
	20-1000MHz			0.6	1.0
	1000-2000MHz			0.5	1.0
	2000-3000MHz			0.5	2.5
Phase Balance	45-1000MHz	°	0.0	2.5	5.0
	1000-2000MHz			9.0	15.0
	2000-3000MHz			40.0	70.0
Input Return Loss(Pin4)	4.5-1000MHz	dB	10.0	15.0	—
	1000-2000MHz		—	5.0	—
	2000-3000MHz		5.0	10.0	—

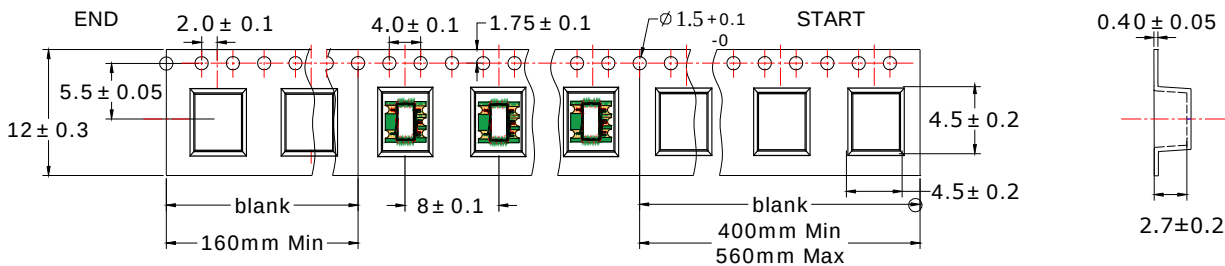


Recommended Soldering Temperature Graph:

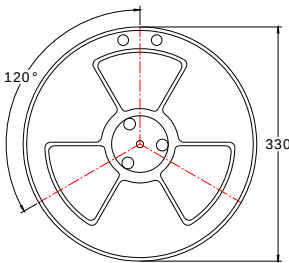


Packing Dimension For Caeier Tape(UNIT:mm):

(UNIT : mm)



QUANTITY
2000PCS/Reel
20000PCS/ Big Carton



SPEC	8	12	16	24
DIM A±0.1	8.5	12.5	16.5	24.5
DIM B±0.1	2.3	2.3	2.3	2.3
DIM C±0.1	100	100	100	100

