

50 Ω 700 to 1400MHz 1:2 Ratio

Ver. A

2023.05.26

Maximum Rating

Operating Temperature -40°C~+85°C

Storage Temperature -55°C~+100°C

RF Input Power 5W max at 25°C

Pin Connections

PRIMARY DOT 4

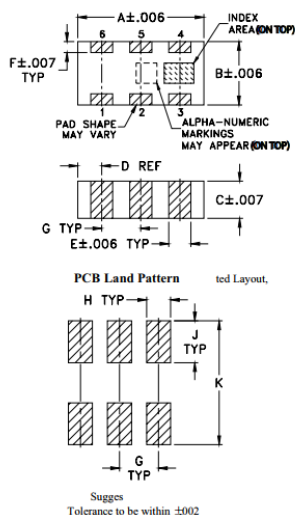
PRIMARY (GND)	2,5
---------------	-----

SECONDARY DOT 1

SECONDARY	6
-----------	---

NO CONNECTION 3

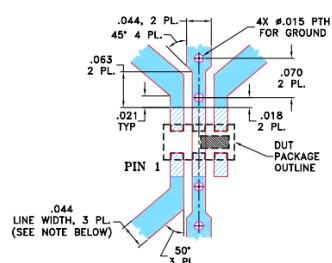
Outline Drawing



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.126	.063	.035	.024	.022	.011
3.20	1.60	0.89	0.61	0.56	0.28
G	H	J	K	wt	
.039	.024	.042	.123	grams	
0.99	0.61	1.07	3.12	.020	

Recommended PC Board Pattern



NOTE:

1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .020" $\pm$.0015".
COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).

 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

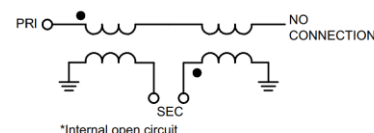
* Line width should be designed to match 50 characteristic impedance, depending on PCB material and thickness.

Features

- Multilayer LTCC (Low Temperature Cofired Ceramics) Technology.
- Miniatured Size L*W*H: 3.2x1.6x0.95mm
- Low Insertion Loss reduces power consumption
- Low inband Amplitude and Phase imbalance
- Single ended 50 ohm differential 100 ohm
- LTCC Structure



RoHS Compliant



Application

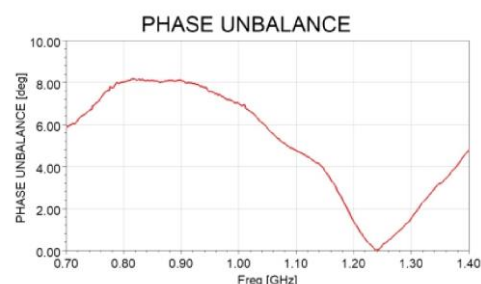
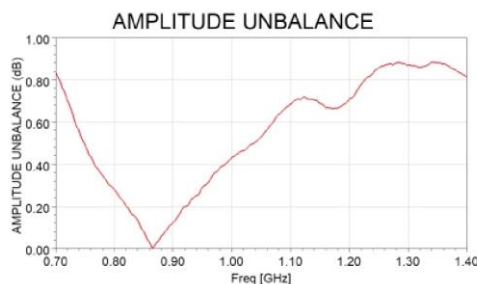
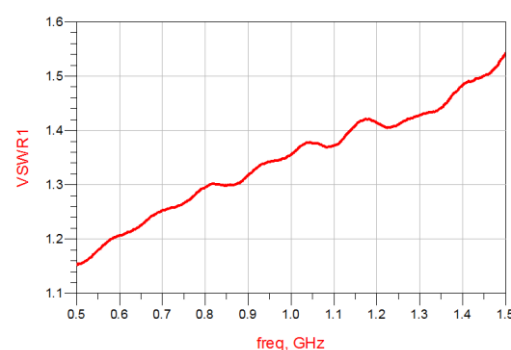
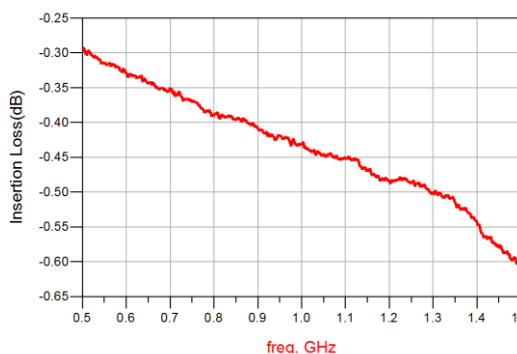
- Applied to GSM、TDMA、PDC、WAN、TACS、AMPS、NAMPS navigation.

Functional Schematic

Electrical Specifications at 25°C

Parameter	Frequency (MHz)	MIN	Typ.	MAX	Unit
Impedance Ratio (Secondary/Primary)		2			
Frequency Range		700		1400	MHz
Insertion Loss	700-1400 800-1000	-	0.9 0.7	-	dB
Amplitude Unbalance	700-1400 800-1000	-	0.8 0.35	-	dB
Phase Unbalance	700-1400 800-1000	-	8.0 8.0	-	Degree

Frequency characteristics



Notes

- a. The specifications are tested at 25°C±5°C, relative humidity 55~75%.
b. Other quality and characteristic not specify in this datasheet.
Please contact us for detail requirements.