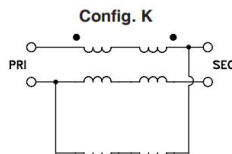


Features

- wide bandwidth 10 to 4000 MHz
- balanced transmission line
- low insertion loss, 1.1 dB typ.
- excellent return loss
- aqueous washable

Applications

- PCS
- wideband push-pull amplifiers
- cellular



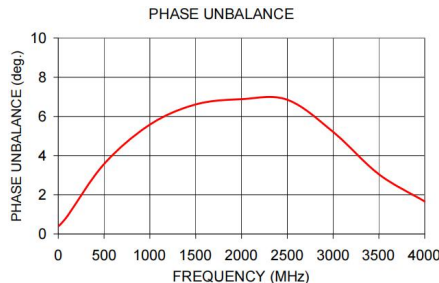
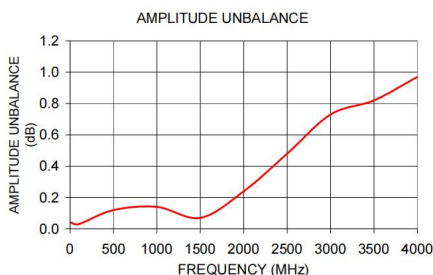
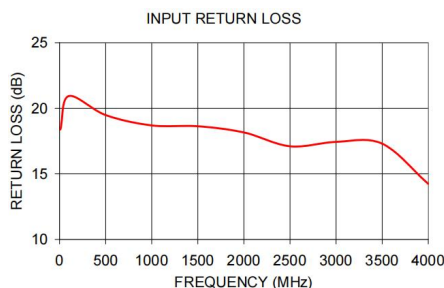
Electrical Specifications at 25°C

Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio	-	-	1	-	-
Frequency Range	-	10	-	4000	Mhz
Insertion Loss*	10-4000	-	1.1	3.0	dB
Amplitude Unbalance	10-4000	-	0.5	-	dB
Phase Unbalance†	10-4000	-	7	-	Degree

Typical Performance Data

(TEST CONDITIONS: INPUT POWER = 0dBm @Temperature = +25°C)

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
10	1.09	18.38	0.04	0.42
100	1.02	20.93	0.03	0.91
500	1.04	19.48	0.12	3.57
1000	1.02	18.69	0.14	5.58
1500	1.01	18.63	0.07	6.61
2000	1.04	18.16	0.24	6.88
2500	1.11	17.10	0.48	6.85
3000	1.17	17.44	0.73	5.21
3500	1.33	17.30	0.82	3.05
4000	1.67	14.24	0.97	1.66



JY-TCM1-43X+



50Ω 10 to 4000 MHz

Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.4W
DC Current	30mA

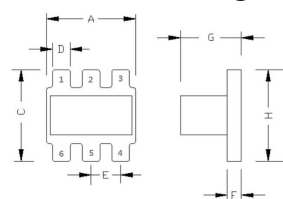
*Permanent damage may occur if any of these limits are exceeded.

Pad Connections

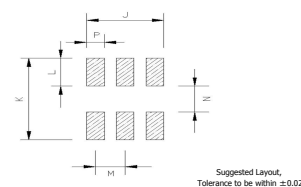
PRIMARY DOT	3
PRIMARY	1,2
SECONDARY DOT	6
SECONDARY	4
GND	1,2
NOT USED	5

*Pin 1 and 2 must be connected together to form Config. K; We recommend grounding this side of the primary as shown in PL-364.

Outline Drawing



PCB Land Pattern

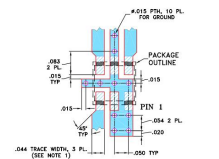


Suggested Layout, Tolerance to be within ±0.02

Outline Dimensions: Unit (mm)

A	3.81	C	3.81	D	0.76
E	1.27	F	0.61	G	2.61
H	3.81	J	3.30	K	4.83
L	1.65	N	1.53	M	1.27
WT			0.15g	P	0.76

Suggested PCB Layout (PL-364)



NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4000B WITH DIELECTRIC THICKNESS 0.007" (0.178mm) COPPER 1/2 OZ. ON EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED. 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE. 3. DENOTES PCB COPPER LAYOUT WITH SMOKE SOLDER MASK OVER BASE COPPER. 4. DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK