

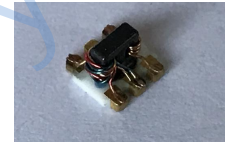
Features

- wide bandwidth 10 to 4000 MHz
- balanced transmission line
- excellent return loss
- aqueous washable

Applications

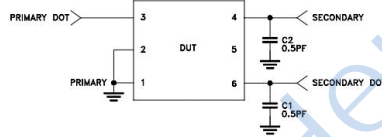
- PCS
- wideband push-pull amplifiers
- cellular

HT-TCM2-43X+



50Ω 10 to 4000 MHz

Electrical Schematic



Electrical Specifications at 25°C

Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio	-	-	2	-	-
Frequency Range	-	10	-	4000	Mhz
Insertion Loss	10-4000	-	1.3	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	1.88	15.46	0.08	0.74
100	1.76	15.22	0.03	1.07
500	1.61	14.98	0.24	4.40
1000	1.35	15.87	0.32	5.96
1500	1.17	17.86	0.09	6.73
2000	1.09	21.30	0.23	7.01
2500	1.11	24.93	0.52	7.71
3000	1.17	25.06	0.82	6.95
3500	1.26	23.10	0.79	5.04
4000	1.55	16.24	0.81	3.16

Maximum Ratings

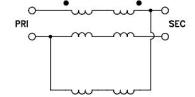
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.4W
DC Current	30mA

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

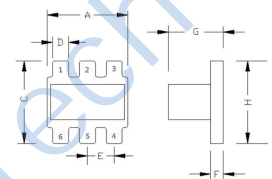
Pin Connections

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

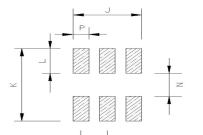
Config. K



Outline Drawing



PCB Land Pattern

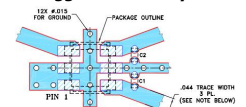


Suggested Layout, Tolerance to be within ±0.02

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



COMPONENT SIZE: 0.51 x 0.25 (LxW)
 NOTES: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4003B WITH DIELECTRIC THICKNESS 0.021" @ 0.015" 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.
 3. CHIP COMPONENT FOOT PRINTS SHOWN FOR REFERENCE. FOR COMPONENT VALUES REFER TO TB-476+.
 4. 100% SENSITIVE FOR COPPER LAYOUT WITH 5000C (SOLDER MASK OVER BARE COPPER)

