



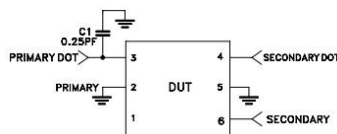
Features

- wide bandwidth 20 to 4500 MHz
- balanced transmission line
- excellent return loss
- aqueous washable

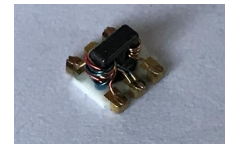
Applications

- PCS
- wideband push-pull amplifiers
- cellular

Electrical Schematic



JY-TCM4-452X+



50Ω 20 to 4500 MHz

Electrical Specifications at 25°C

Parameter	Frequency(MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio	-	-	4	-	-
Frequency Range	-	20	-	4500	Mhz
Insertion Loss	20-4500	-	1.5	3.0	dB
Amplitude Unbalance	20-4500	-	0.5	-	dB
Phase Unbalance	20-4500	-	5	-	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.)
10.0	1.54	15.59	0.04	0.06
500.0	1.44	16.30	0.02	2.83
1000.0	1.45	12.89	0.03	4.85
1500.0	1.55	10.82	0.01	6.26
2000.0	1.60	10.63	0.17	6.46
2500.0	1.57	12.23	0.19	5.36
3000.0	1.54	15.11	0.22	4.87
3500.0	1.58	17.73	0.61	2.79
4000.0	1.73	21.68	0.85	0.04
4500.0	1.82	33.66	0.89	0.58

Maximum Ratings

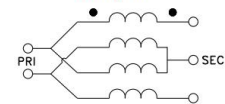
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input*	0.4W
DC Current	30mA

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

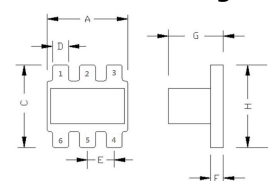
Pid Connections

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

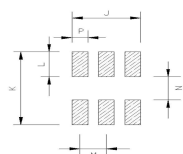
Config. H



Outline Drawing



PCB Land Pattern

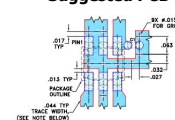


Suggested Layout, Tolerance to be within ±0.02

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		P	0.15g		

Suggested PCB Layout



NOTES: 1. TRACE WIDTH IS SHOWN FOR PROPOSED PRODUCTION WITH SELECTING THICKNESS 0.018" ± 0.001" COPPER (1/2 OZ. EACH SIDE). FOR OTHER DIFFERENT THICKNESS, CONTACT WITH MANUFACTURER.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
3. SOLDER MASK COATING COATING IS SHOWN FOR REFERENCE.
FOR COMPONENT VALUE REFER TO 10-997.
4. DIMENSIONS FOR COMPONENTS WITH SOLDER COATING.
5. DIMENSIONS FOR COMPONENTS WITH SOLDER COATING.
6. DIMENSIONS FOR COMPONENTS WITH SOLDER COATING.