Surface Mount **T** 10 to 3000 MHz

50Ω

Features

- wide bandwidth 10 to 3000 MHz
- · balanced transmission line
- excellent return loss
- aqueous washable
- patent pending

Applications

- PCS
- wideband push-pull amplifiers
- cellular

Electrical Specifications at 25°C



TCM2-33WX+

Generic photo used for illustration purposes only

CASE STYLE: DB1627

+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

	Available Tape and Reel at no extra cost
Reel Size	Devices/Reel
7"	20, 50, 100, 200, 500
13"	1000, 2000

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary/primary)			2		Ohm
Frequency Range		10		3000	MHz
Insertion Loss*	10 - 3000	_	1.5	3.0	dB
Amplitude Unbalance	10 - 3000	—	0.7	—	dB
Phase Unbalance	10 - 3000	—	4	_	Degree

* Insertion Loss is referenced to mid-band loss, 0.8 dB typ.

Maximum Ratings

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

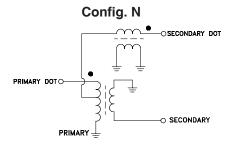
Permanent damage may occur if any of these limits are exceeded.

Product Marking

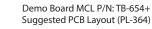


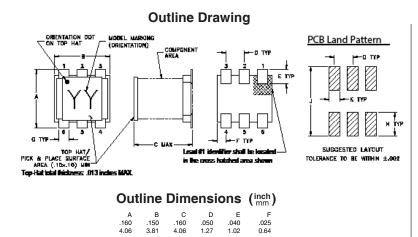
Pin Connections

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



TCM2-33WX+





к

030

0.76

J

190

G

.028 0.71

н

065

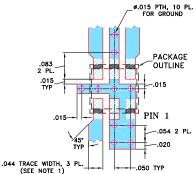
1.65 4.83

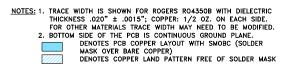
.025 0.64

wt

grams

0.15

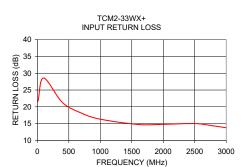


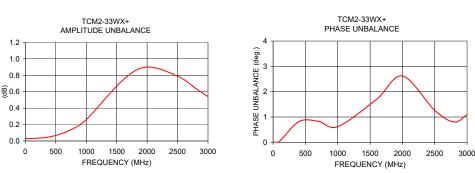


Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)	Input R. Loss (dB)	Amplitude Unbalance (dB)	Phase Unbalance (Deg.)
10	0.87	21.66	0.03	0.01
100	0.78	28.58	0.03	0.04
400	0.95	21.26	0.05	0.82
700	1.12	18.13	0.12	0.83
1000	1.30	16.31	0.26	0.62
1600	1.72	14.75	0.74	1.70
2000	2.01	14.79	0.90	2.62
2500	2.46	15.01	0.79	1.26
2800	2.74	14.33	0.64	0.80
3000	2.93	13.77	0.54	1.09







Additional Notes

AMPLITUDE UNBALANCE

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document. B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. C. The parts covered by this specification document are subject to Mini-Circuit standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are
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