# Surface Mount **T** 1700 to 6700 MHz

50Ω

#### **Features**

- wide bandwidth 1700 to 6700 MHz
- balanced transmission line
- excellent return loss
- aqueous washable

## Applications

- PCS
- wideband push-pull amplifiers
- cellular





Generic photo used for illustration purposes only

CASE STYLE: DB1627

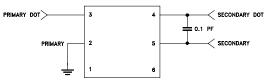
+RoHS Compliant The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

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

## Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary/primary)			2		
Frequency Range		1700		6700	MHz
Insertion Loss	1700-6700	_	1.1	2.5	dB
Amplitude Unbalance	1700-6700	_	0.8	_	dB
Phase Unbalance	1700-6700	_	6	_	Degree

## **Electrical Schematic**



## **Maximum Ratings**

<b>U</b>				
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				

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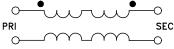
## **Product Marking**



# **Pin Connections**

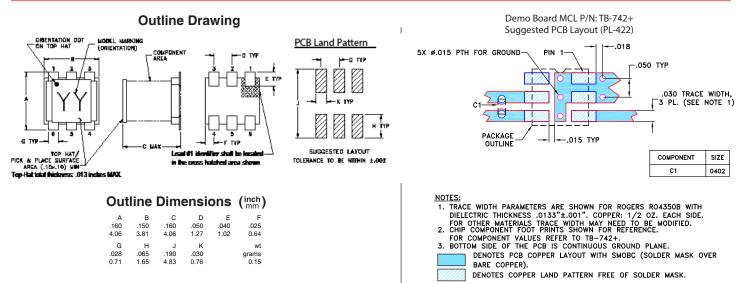
Function	Pin Number		
PRIMARY DOT	3		
PRIMARY (GND)	2		
SECONDARY DOT	4		
SECONDARY	5		
NOT USED	1,6		

# Config. G





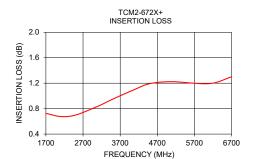
# TCM2-672X-1+



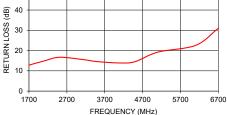
#### **Typical Performance Data**

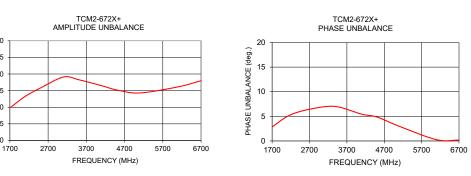
Frequency (MHz)	Avg. Insertion Loss (dB)	Input R. Loss (dB)	Amplitude Unbalance (dB)	Phase Unbalance (Deg.)
1700	0.73	12.81	1.02	2.84
2100	0.68	14.88	0.67	4.96
2500	0.70	16.69	0.42	6.09
3100	0.84	15.62	0.09	6.95
3500	0.95	14.56	0.17	6.87
4100	1.10	13.88	0.35	5.43
4500	1.19	14.52	0.48	4.87
5100	1.22	19.23	0.57	2.98
6100	1.19	22.57	0.39	0.25
6700	1.30	31.04	0.20	0.17

50









#### **Additional Notes**

4.0

3.5

3.0 2.5

2.0

1.5 1.0

AMPLITUDE UNBALANCE (dB)

- 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.
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