

# Balanced <sup>top hat</sup> RF Transformer

50Ω 10 to 1800 MHz

## TRS1.5-182+

### Features

- suitable for tin/lead and RoHS solder systems
- wideband, 10 to 1800 MHz
- balanced transmission line
- good return loss, 20 dB typ. at 1 dB band
- excellent amplitude unbalance, 0.3 dB typ.
- aqueous washable
- excellent intermod suppression



Generic photo used for illustration purposes only  
CASE STYLE: TT1618

**+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
13"	900

### Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Impedance Ratio (secondary / primary)			1.5		
Frequency Range		10		1800	MHz
Insertion Loss*	50 -1200	—	0.6	1.4	dB
	10-1800	—	0.9	2.8	
Amplitude Unbalance	50-1000	—	0.3	0.95	dB
	1000-1200	—	0.5	0.90	
Phase Unbalance	10-1800	—	0.7	1.70	Degree
	50-500	—	2	8	
Primary Return Loss (Input)	500-1000	—	3	9	dB
	10-1800	—	7.5	10	
	50-500	—	18	—	
	500-1000	—	17	—	
	1000-1200	—	17	—	
	10-1800	—	14	—	

\*Insertion Loss is referenced to mid-band loss, 0.65 dB typ.

### Maximum Ratings

Parameter	Ratings
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	1W
DC Current	30mA

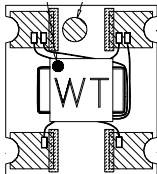
Permanent damage may occur if any of these limits are exceeded.

### Pin Connections

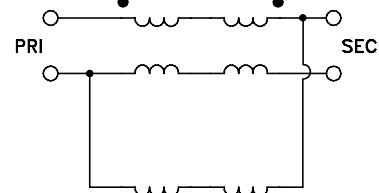
Function	Pin Number
PRIMARY DOT	4
PRIMARY	1
SECONDARY DOT	2
SECONDARY	3

Demo Board MCL P/N: TB-789+

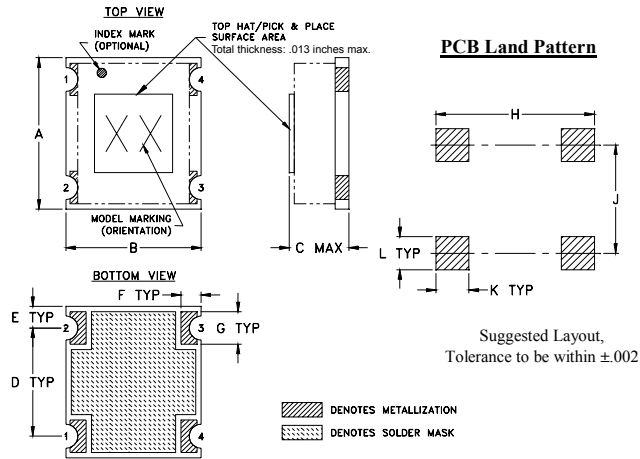
### Product Marking



### Config. K



## Outline Drawing

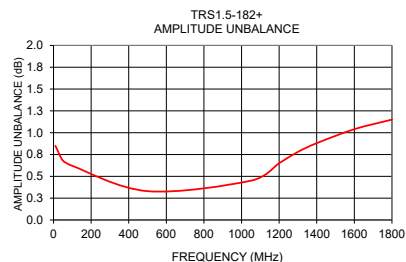
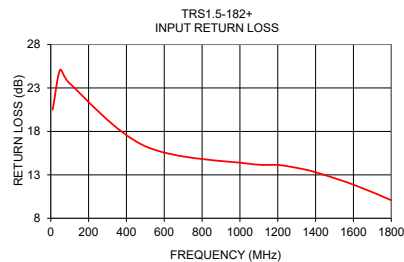
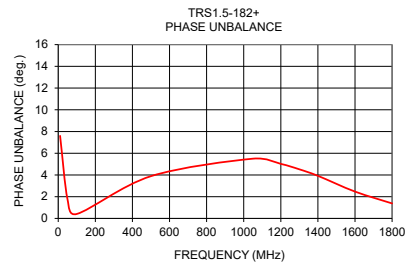
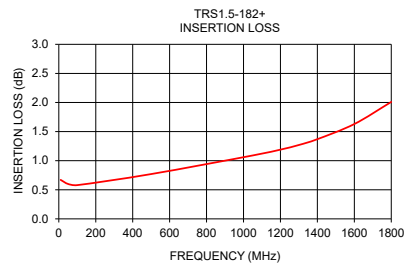


## Outline Dimensions (inch mm)

A	B	C	D	E	F
.280	.250	.12	.200	.040	.037
7.11	6.35	3.05	5.08	1.02	0.94
G	H	J	K	L	wt.
.060	.293	.200	.061	.061	grams
1.52	7.44	5.08	1.55	1.55	2.8

## Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
10.0	0.67	20.51	0.85	7.60
50.0	0.60	25.09	0.68	1.76
100.0	0.58	23.52	0.62	0.41
500.0	0.77	16.29	0.33	3.89
1050.0	1.09	14.27	0.45	5.50
1200.0	1.19	14.14	0.65	5.02
1300.0	1.27	13.80	0.78	4.52
1400.0	1.37	13.30	0.88	3.92
1600.0	1.63	11.87	1.04	2.47
1800.0	2.01	10.08	1.15	1.38



## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Audio Transformers / Signal Transformers](#) category:*

*Click to view products by [Mini-Circuits](#) manufacturer:*

Other Similar products are found below :

[CX2041NLT](#) [MGPWT-00449-P](#) [PE-64961](#) [H1302FNLT](#) [H5008FNL](#) [H5012FNL](#) [H5020FNLT](#) [H5077NLT](#) [H5079NLT](#) [H5084FNLT](#)  
[B78476A9558A003](#) [1812WBT2-4](#) [1879479-1](#) [HX2260FNL](#) [HX5014FNL](#) [EX2024FNL](#) [FL1066](#) [T1137NLT](#) [T3012NL](#) [PE-65812FNL](#) [PE-65848FNLT](#) [H1174FNL](#) [H1302FNL](#) [H5015FNL](#) [H5019EFNL](#) [H5062FNLT](#) [CX2047LNL](#) [MGPWT-00059-P](#) [MGPWT-00266-P](#) [MGPWT-00278-P](#) [MGPWT-00431-P](#) [TTC-100](#) [TTC-143-H](#) [TTC-5032-1](#) [BX1194WNLT](#) [HX1234NLT](#) [HX5008FNLT](#) [HX5019FNL](#) [HX5084NL](#) [3-1879385-5](#) [TX1263NLT](#) [4-1879391-0](#) [T1142NL](#) [HX6101FNL](#) [HX5084FNL](#) [HX1148NL](#) [HX5020FNLT](#) [HX5014FNLT](#) [T1124NL](#)  
[1879732-1](#)