Surface Mount **RF Transformer** 10 to 1900 MHz

50Ω

Features

- wide bandwidth, 10 to 1900 MHz
- · balanced transmission line with secondary center tap
- plastic base with solder plated leads
- aqueous washable

Applications • PCS

- cellular





Generic photo used for illustration purposes only

CASE STYLE: DB714

+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

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit	
Impedance Ratio (secondary/primary)			4		Ohm	
Frequency Range		10		1900	MHz	
	10 - 1900		3			
Insertion Loss*	20 - 1000		2		dB	
	30 - 700		1			
Phase Unbalance	30 - 700		4		Der	
Phase Unbalance	20 - 1000		6		Deg.	
	30 - 700		0.3		dB	
Amplitude Unbalance	20 - 1000		0.5			

* Insertion Loss is referenced to mid-band loss, 1.0 dB typ. Measure back to back

Maximum Ratings

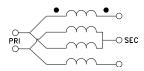
Parameter	Ratings
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

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

Pin Connections

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

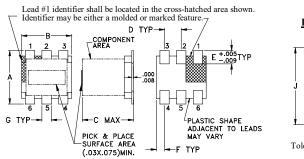
Config. H

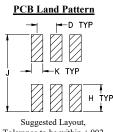


REV. H ECO-006688 M164261 TCM4-19+ ED-8234A IG/TD/CP/AM 210404

TCM4-19+

Outline Drawing



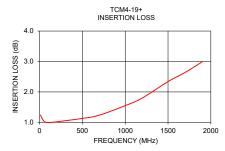


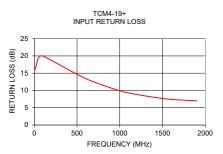
Tolerance to be within ±.002

Outline Dimensions (inch)

F	E	D	C	B	A
.025	.040	.050	.160	.150	.160
0.64	1.02	1.27	4.06	3.81	4.06
0.64 wt	1.02	к	J	н	G
grams		.030	.190	.065	.028
0.15		0.76	4.83	1.65	0.71

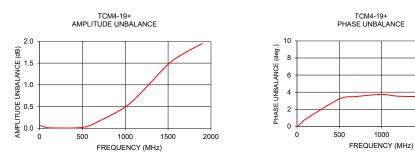
Frequency (MHz)	Insertion Loss (dB)	Input R. Loss (dB)	Amplitude Unbalance (dB)	Phase Unbalance (Deg.)
10	1.24	16.03	0.06	0.03
50	1.04	19.54	0.04	0.39
100	0.99	19.98	0.01	0.83
500	1.13	14.68	0.02	3.20
700	1.24	12.43	0.17	3.49
1000	1.55	9.92	0.49	3.74
1200	1.80	8.83	0.85	3.53
1500	2.34	7.69	1.47	3.59
1700	2.64	7.26	1.74	4.43
1900	2.99	7.01	1.95	4.99





1500

2000



- Additional Notes
 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.
- A. Pertomatice and quary attributes and continues and continues and continues and other part of this specification occurrent are interfaced to be excluded and this specification docurrent 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-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained threin. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp