

5 to 120 MHz

TC1-1T-75X+

 75Ω

Features

- DOCSIS 3.1 suitable
- · plastic base with leads
- aqueous washable

Applications

- impedance matching
- unbalance to balance transformation
- cable/CATV and broadband fiber networks



Generic photo used for illustration purposes only

CASE STYLE: AT1521

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



Electrical Specifications at 25°C

Parameter	Frequency (MHz)	Min.	Тур.	Max.	Unit	
Impedance Ratio			Ohm			
Frequency Range		5	_	120	MHz	
Insertion Loss*	5 - 75	_	0.1	0.4		
Insertion Loss	75 - 120	_	0.3	0.6	dB	
Amulitude Unhelenee	5 - 75	_	0.1	0.2	dB	
Amplitude Unbalance	75 - 120	_	0.2	0.3	ав	
Phase Unbalance	5 - 75	_	1	4	Degree	
Filase Officialice	75 - 120	_	3	6		
	5 - 20	25	30	_		
Return Loss	20-75	23	28	_	dB	
	75-120	20	25	_		

^{*}Insertion Loss is referenced to mid-band loss, 0.25 dB typ.

Maximum Ratings

Parameter	Ratings	
Operating Temperature	-40°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.

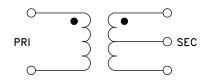
Pin Connections

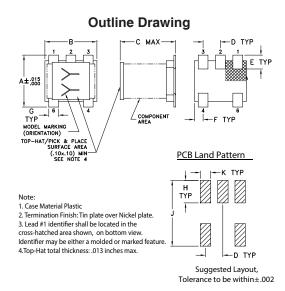
Function	Pin Number			
PRIMARY DOT	6			
PRIMARY	4			
SECONDARY DOT	1			
SECONDARY	3			
SECONDARY CT	2			

Product Marking



Config. A



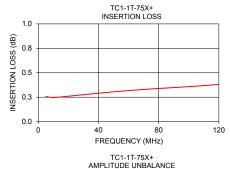


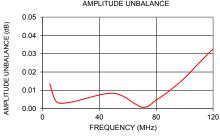
Outline Dimensions (inch)

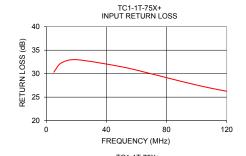
	Α	В	С	D	Е	F
.1	150	.150	.160	.050	.040	.025
3	.81	3.81	4.06	1.27	1.02	0.64
	G	Н	J	K		wt
.(28	.065	.190	.030		grams
0	.71	1.65	4.83	0.76		0.15

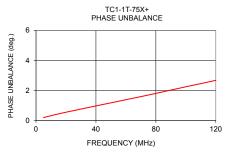
Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	AMPLITUDE UNBALANCE (dB)	PHASE UNBALANCE (Deg.)
5.00	0.26	30.33	0.01	0.20
10.00	0.25	32.29	0.00	0.32
20.00	0.26	32.98	0.00	0.55
50.00	0.31	31.47	0.01	1.18
70.00	0.33	29.95	0.00	1.59
80.00	0.34	29.15	0.00	1.81
90.00	0.35	28.34	0.01	2.03
100.00	0.36	27.58	0.02	2.25
110.00	0.37	26.88	0.02	2.46
120.00	0.38	26.26	0.03	2.68









Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

 $\frac{\text{Mini-Circuits}}{\frac{\text{TC1-1T-75X+}}{}}$