

TC4-11X+

50Ω 2 to 1100 MHz

#### **Features**

- wideband 2-1100 MHz
- · good return loss
- terminations, solder plated with nickel barrier for solderability and excellent leach resistance
- step-down autotransformer
- plastic base with leads
- · aqueous washable

## **Applications**

• cellular



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	Condition	Min.	Тур.	Max.	Unit
Impedance Ratio (secondary / primary)			50/12.5		Ohm
Frequency Range		2		1100	MHz
	_		3.0		
Insertion Loss*	2-1100		2.0		dB
	5-700		1.0		

<sup>\*</sup> Insertion Loss is referenced to mid-band loss, 0.4 dB typ. Stepdown, 50 ohm primary, 5.2 pF across secondary

# **Maximum Ratings**

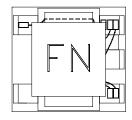
Parameter	Ratings
Operating Temperature	-20°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power	0.25W
DC Current	30mA

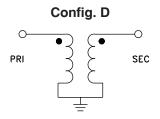
Permanent damage may occur if any of these limits are exceeded.

## **Pin Connections**

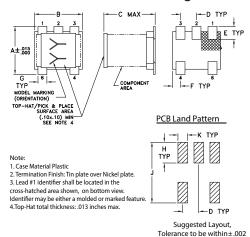
Function	Pin Number
PRIMARY DOT	6
PRIMARY	3
SECONDARY DOT	1
SECONDARY	3

## **Product Marking**





# **Outline Drawing**



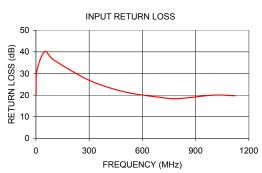
## Outline Dimensions (inch )

F	E	D	С	В	Α
.025	.040	.050	.160	.150	.150
0.64	1.02	1.27	4.06	3.81	3.81
wt		K	J	Н	G
grams		.030	.190	.065	.028
0.15		0.76	1 83	1.65	0.71

## **Typical Performance Data**

FREQUENCY (MHz)	INSERTION LOSS (dB)	INPUT R. LOSS (dB)	
1.00	0.63	20.35	
5.00	0.36	31.19	
50.00	0.37	40.18	
100.00	0.39	36.30	
300.00	0.43	26.86	
500.00	0.53	21.49	
700.00	0.64	18.96	
800.00	0.71	18.37	
1000.00	0.89	19.97	
1120.00	1.10	19.69	





#### **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.

- 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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