

H3-B75-1-0. 4-500M

0.4-500MHz 75Ω 1:1 Balun

APPLICATIONS

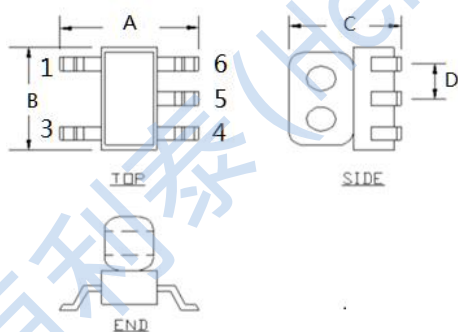
• Ideally suitable for CATV broadband applications.

FEATURES

- Surface mount
- Impedance ratio: 1:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS

Land Pattern



A	B	C
4.23	3.78	3.65
D		
1.27		

E	F	G
4.83	3.30	1.40
H	J	
0.76	1.27	

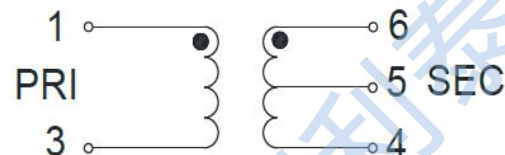
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z0 (P1 / P2 / P3)			75 / 37.5 / 37.5		Ohm
Insertion Loss	0.4-100MHz		0.5	1	dB
	100-300MHz		0.7	2	dB
	300-500MHz		1.6	3.0	dB
Input Return Loss (Pin 1)	0.4-300MHz	12.0	15.0		dB
	100-200MHz	15.0	27.0		dB
	300-500MHz	10.0	15.0		dB
Amplitude Balance	0.4-100MHz		0.10	0.5	dB
	100-300MHz		0.70	1.0	dB
	300-500MHz		1.70	2.0	dB
Phase UnBalance (ref value 180° Deg)	0.4-100MHz		1.0	2.0	Deg
	100-300MHz		2.0	5.0	Deg
	300-500MHz		3.0	8.0	Deg

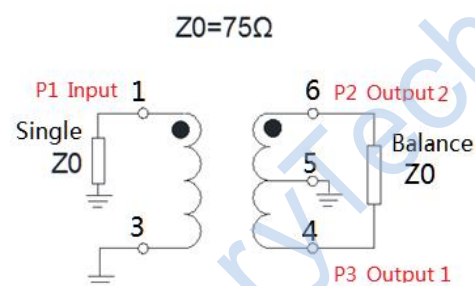
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Primary Dot
3	Primary
4	Secondary
5	Center Tap
6	Secondary Dot

APPLICATION & TEST CIRCUIT



RF ports: P1/P2/P3

ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input RF Power(+28dBm)	631mW Max
DC Current(tested at 5V)	600mA Max
Operating Temperature Range	-40 to 85°C

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TEST CURVE

