

H3-MABA-009852-CF1A40

5-300MHz 75Ω 1:1 Balun

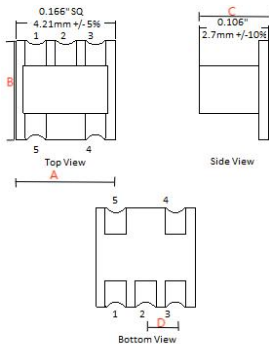
APPLICATIONS

• Ideally suitable for CATV broadband applications.

FEATURES

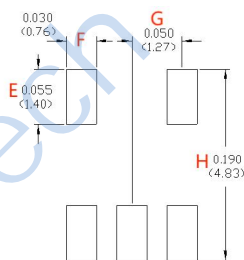
- Surface mount
- Impedance ratio: 1:1
- Centre tap on secondary
- RoHS compliant and Pb free
- Available on tape and reel

DIMENSIONS



A	B	C
4.21	4.21	2.70
D		
1.27		

Land Pattern



E	F	G
1.40	0.76	1.27
H		
4.83		

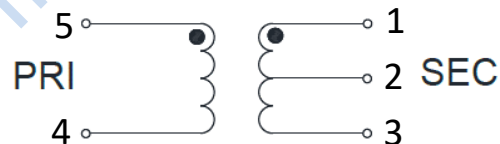
Unless otherwise stated dimensions are in mm

Tolerance: .xx ± 0.25, .xxx ± 0.05

ELECTRICAL SPECIFICATIONS@25°C:

Parameters (P#: ENA PORT)	frequency band	Min.	Typ.	Max.	Unit
Port Impedance, Z ₀ (P1 / P2 / P3)			75 / 37.5 / 37.5		Ohm
Insertion Loss (pin 5-1)	5-75MHz		0.10	0.40	dB
	75-120MHz		0.30	0.60	dB
	120-204MHz		0.60	0.80	dB
	204-300MHz		1.00	1.20	dB
Insertion Loss (pin 5-3)	5-75MHz		0.20	0.40	dB
	75-120MHz		0.30	0.50	dB
	120-204MHz		0.35	0.60	dB
	204-300MHz		0.40	0.60	dB
Amplitude Balance	5-75MHz		0.03	0.17	dB
	75-120MHz		0.12	0.38	dB
	120-204MHz		0.30	0.50	dB
	204-300MHz		0.70	1.00	dB
Phase Balance (Nominal phase difference is 180 degrees)	5-75MHz		0.05	2.00	Deg
	75-120MHz		0.10	3.00	Deg
	120-204MHz		0.30	3.90	Deg
	204-300MHz		0.50	6.10	Deg
Input Return Loss	5-20MHz	25	30		dB
	20-75MHz	20	28		dB
	75-120MHz	15	20		dB
	120-204MHz	15	19		dB
	204-300MHz	12	17		dB

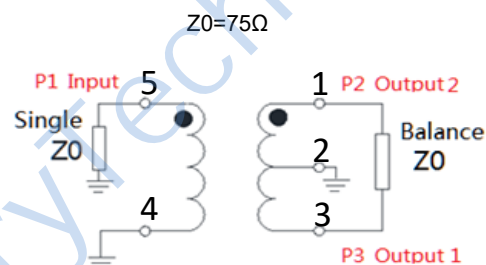
FUNCTIONAL SCHEMATIC



PIN CONFIGURATION

Pin No.	Function
1	Secondary Dot
2	Secondary centre Tap
3	Secondary
4	Primary
5	Primary Dot

APPLICATION & TEST CIRCUIT



RF ports: P1/P2/P3

ABSOLUTE MAXIMUM RATINGS

Parameter	Value
Input Power	250mW Max
DC Current	500mA Max
Operating Temperature Range	-40 to 85°C
Storage Temperature Range	-55 to 100°C

Tel: +86-28-85589664

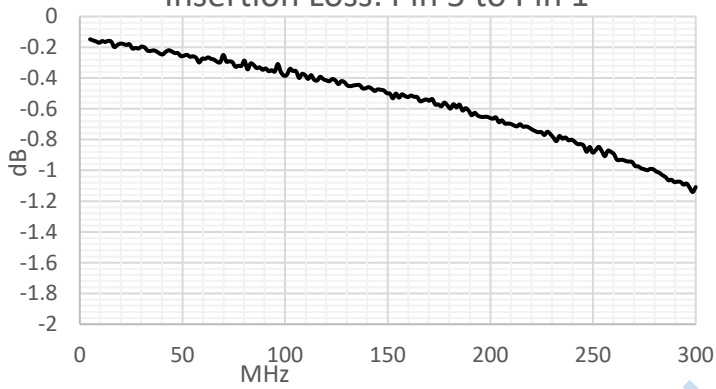
E-mail: mr_li@henglitaitech.com

Web: www.hltchips.com

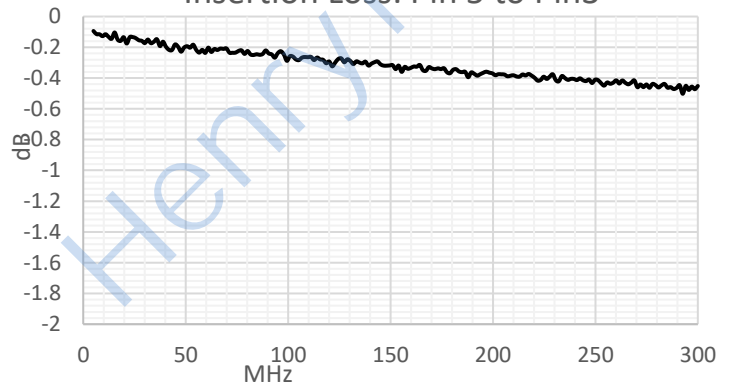
Address: No.198 Tianqin East Street, Gaoxin West District, Chengdu City

TEST CURVE

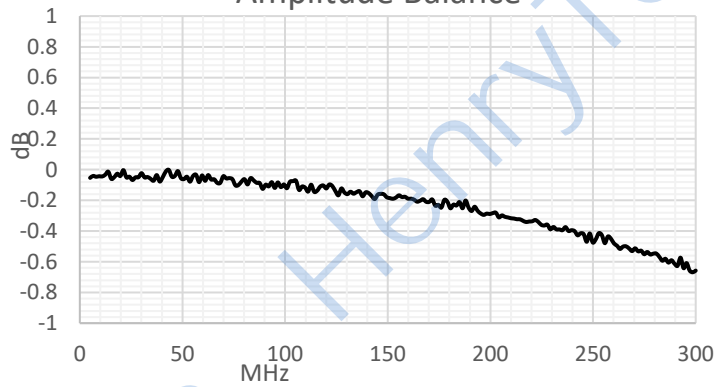
Insertion Loss: Pin 5 to Pin 1



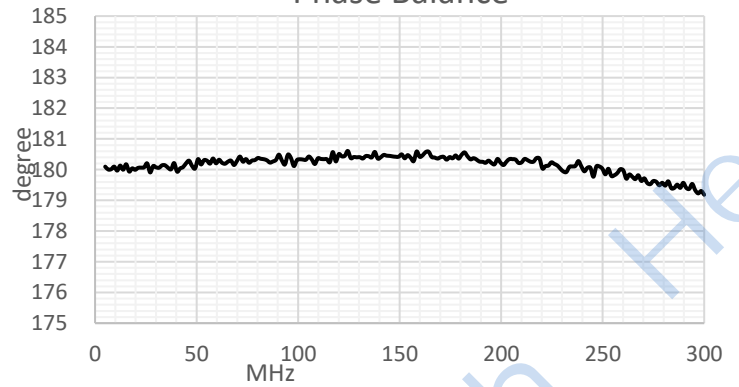
Insertion Loss: Pin 5 to Pin3



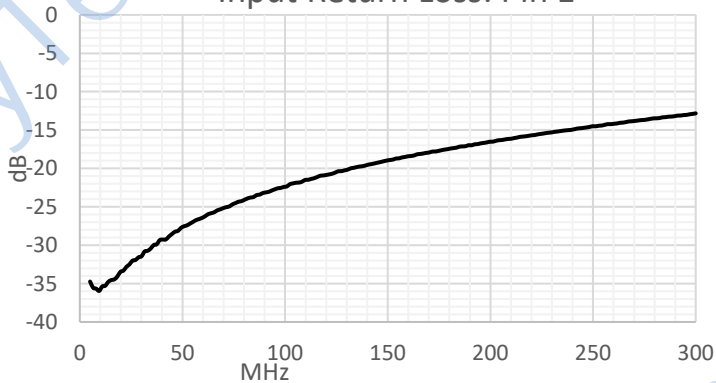
Amplitude Balance



Phase Balance



Input Return Loss: Pin 1



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