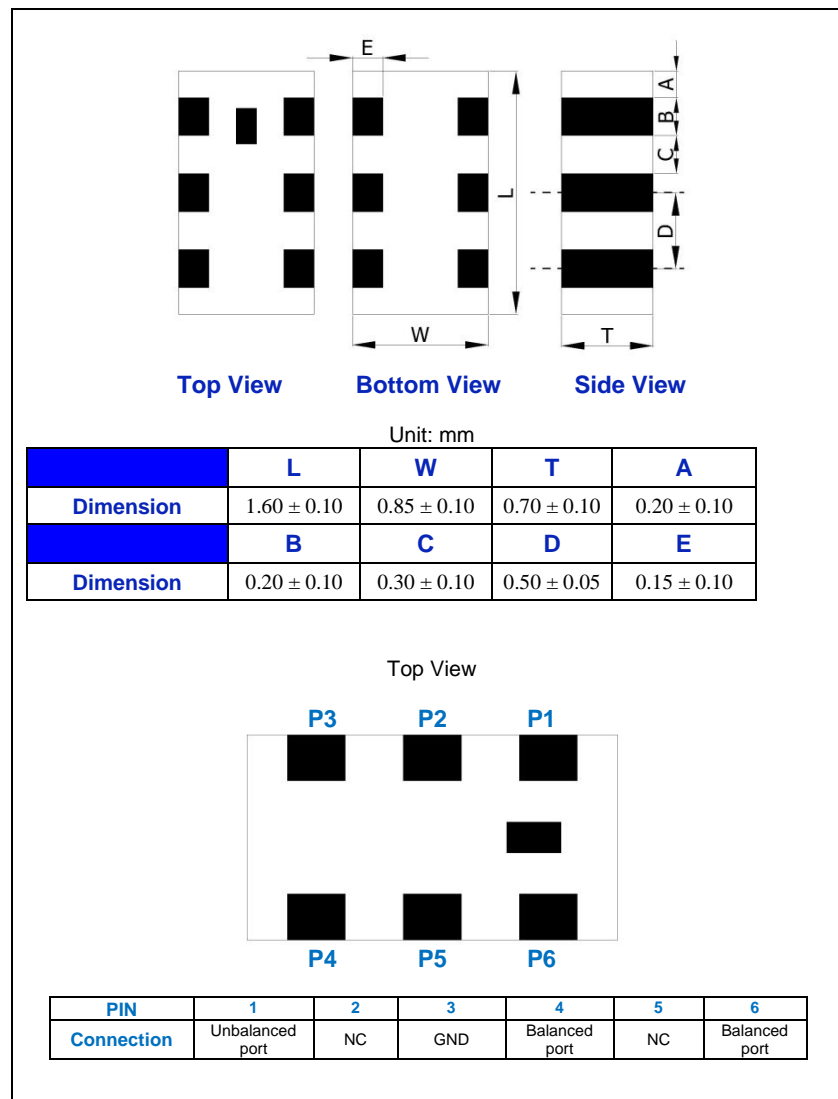


ELECTRICAL SPECIFICATION

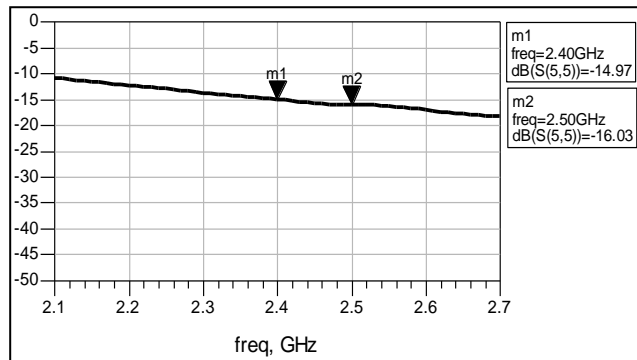
SPECIFICATIONS	SPECIFICATIONS	UNIT
Frequency Range	2400 ~2500	MHz
Insertion Loss, Max	1.0	dB
Return Loss, min	10	dB
Unbalance Impedance	50	Ω
Balance Impedance	100	Ω
Phase Difference	$180^\circ \pm 10^\circ$	
Amplitude Difference, Max	2.0	dB
Operating Temperature Range	-40 ~ +85	$^\circ\text{C}$

MECHANICAL SPECIFICATION

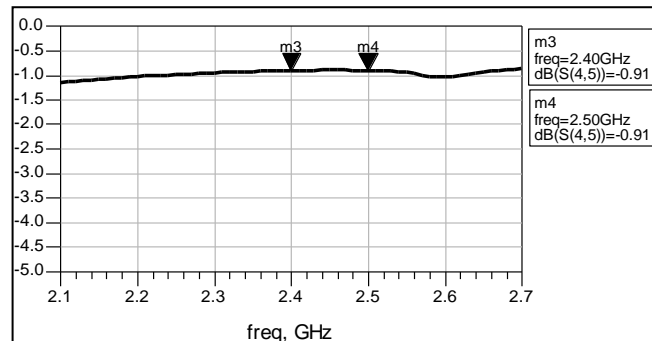


Typical Electrical Performance

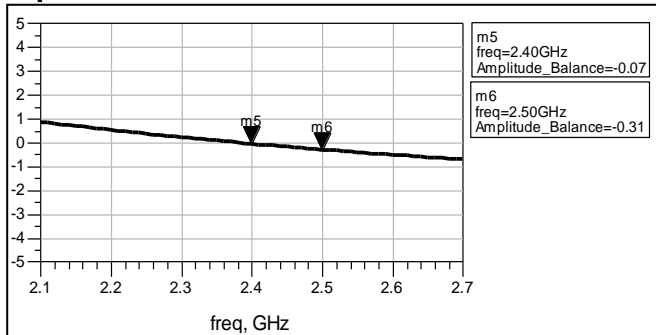
Return Loss



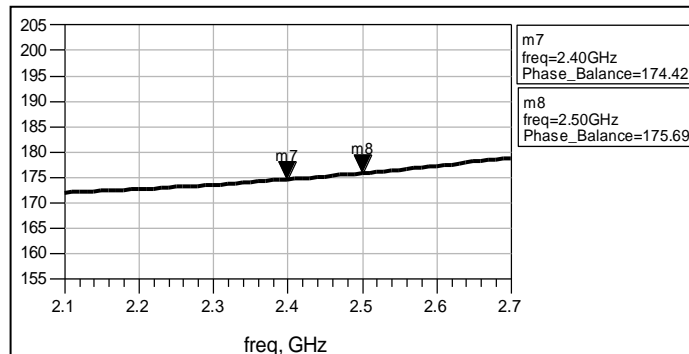
Insertion Loss



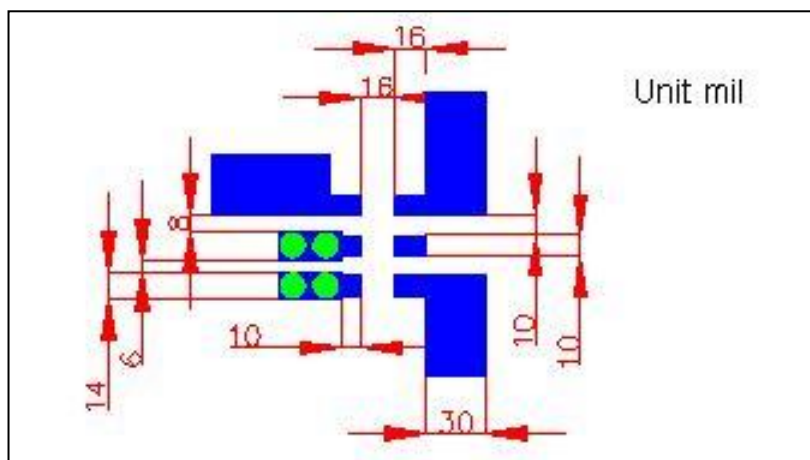
Amplitude Balance



Phase Balance



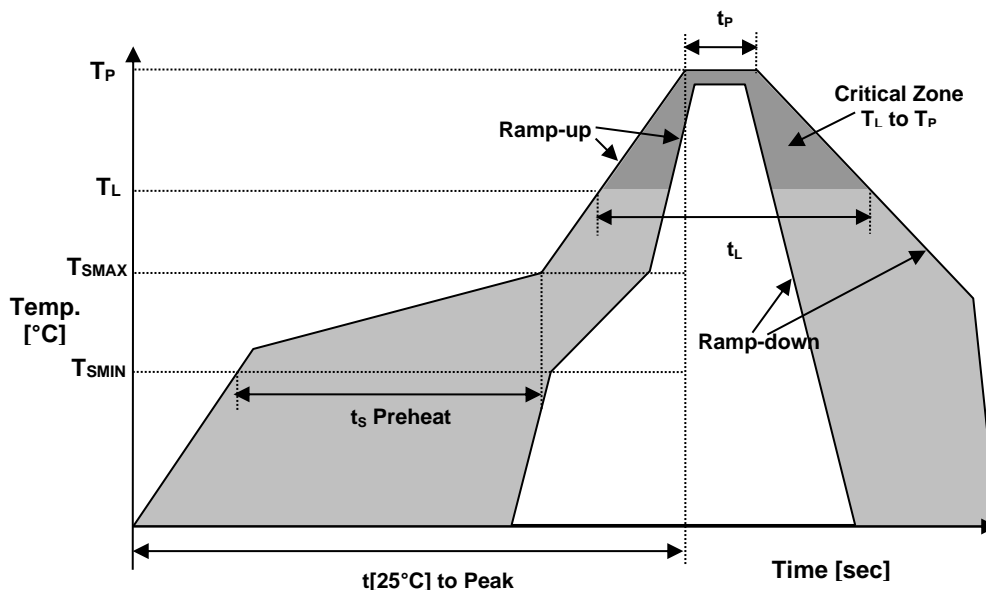
Solder Land Pattern



Unit : mm

Line width to be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness.

REFLOW PROFILE



Reflow profile		
Temperature Min Preheat	T _S MIN	150°C
Temperature Max Preheat	T _S MAX	200°C
Time (T _S MIN to T _S MAX)	t _s	60-180 sec.
Temperature	T _L	217°C
Peak Temperature	T _P	260°C
Ramp-up rate	R _{UP}	3°C/sec max.
Ramp-down rate	R _{DOWN}	6°C/sec max.
Time within 5°C of Peak Temperature	t _P	10 sec.
Time t[25°C] to Peak Temperature	t[25°C] to Peak	480 sec.
Time	t _L	60-150 sec.

ENVIRONMENTAL

PARAMETER	VALUE
MOISTURE SENSITIVITY LEVEL	1
RoHS2	6/6 COMPLIANT & LEAD FREE
REACH-SVHC	COMPLIANT
HALOGEN-FREE	COMPLIANT
TERMINATION FINISH	Sn



APPROVAL

RALTRON	
DRAWN BY:	F. Parra, 28 May 2015
APPROVED BY:	F. Parra, 28 May 2015
REVISION:	A, Initial Release

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