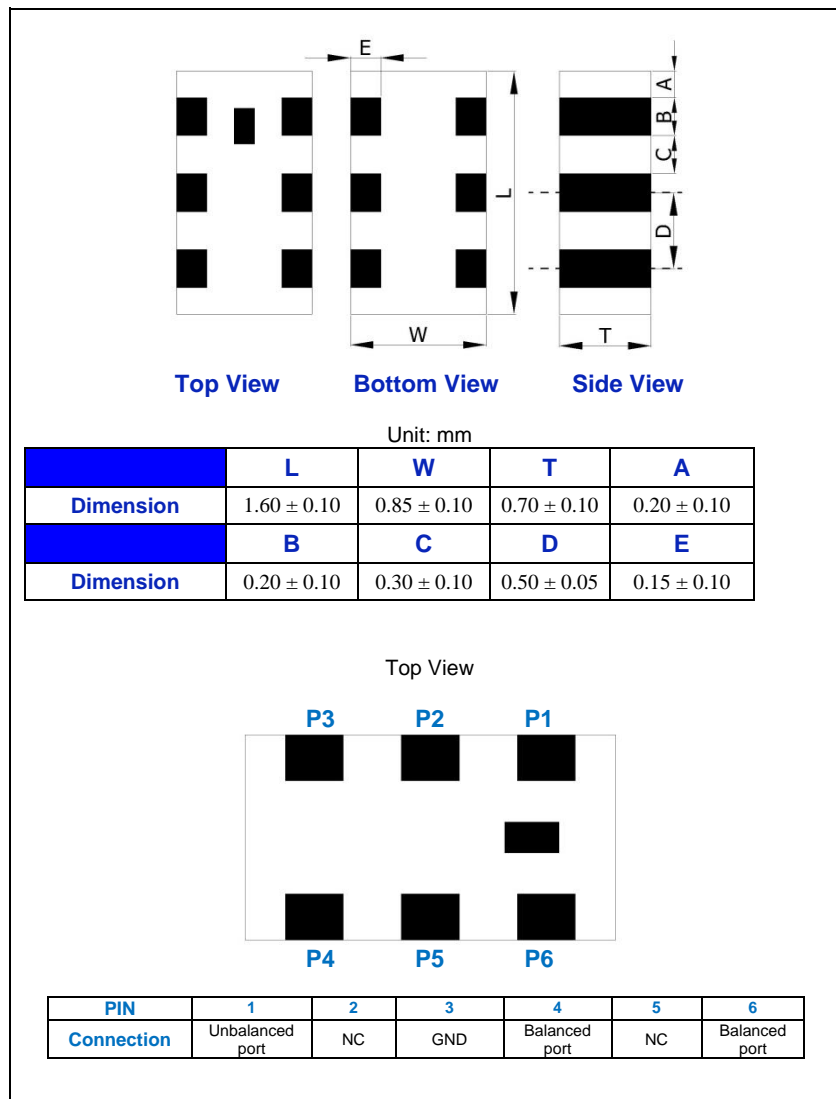


ELECTRICAL SPECIFICATION

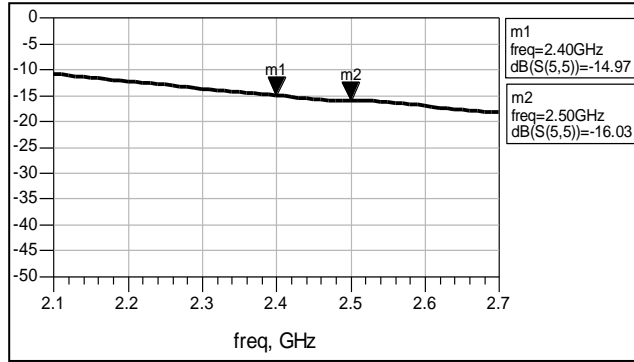
SPECIFICATIONS	SPECIFICATIONS	UNIT
Frequency Range	2400 ~2500	MHz
Insertion Loss, Max	1.0	dB
Return Loss, min	10	dB
Unbalance Impedance	50	Ω
Balance Impedance	100	Ω
Phase Difference	$180^\circ \pm 10^\circ$	
Amplitude Difference, Max	2.0	dB
Operating Temperature Range	-40 ~ +85	$^\circ\text{C}$

MECHANICAL SPECIFICATION

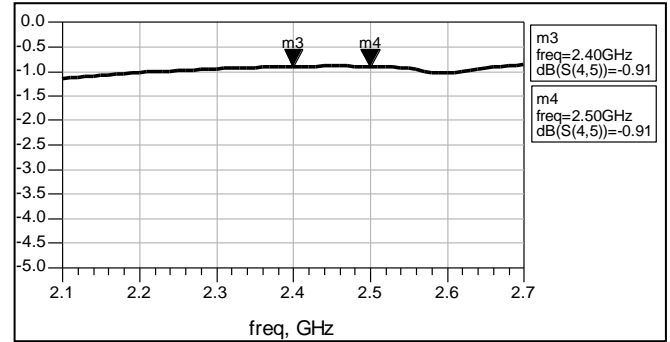


Typical Electrical Performance

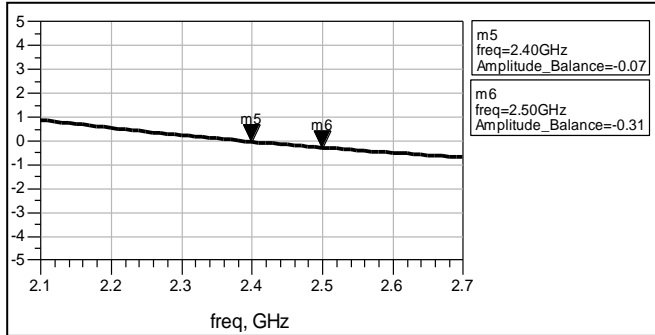
Return Loss



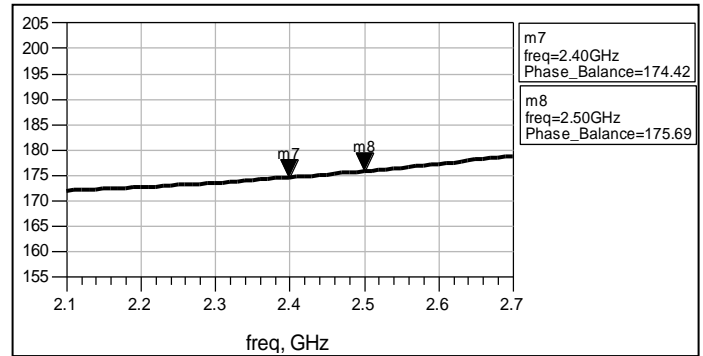
Insertion Loss



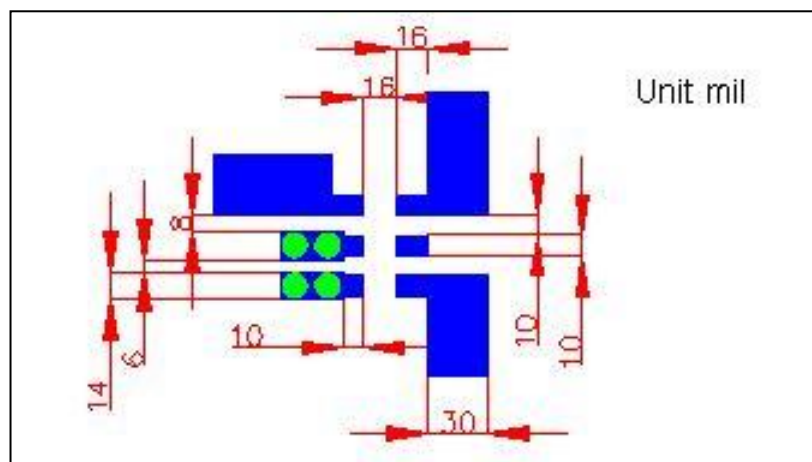
Amplitude Balance



Phase Balance



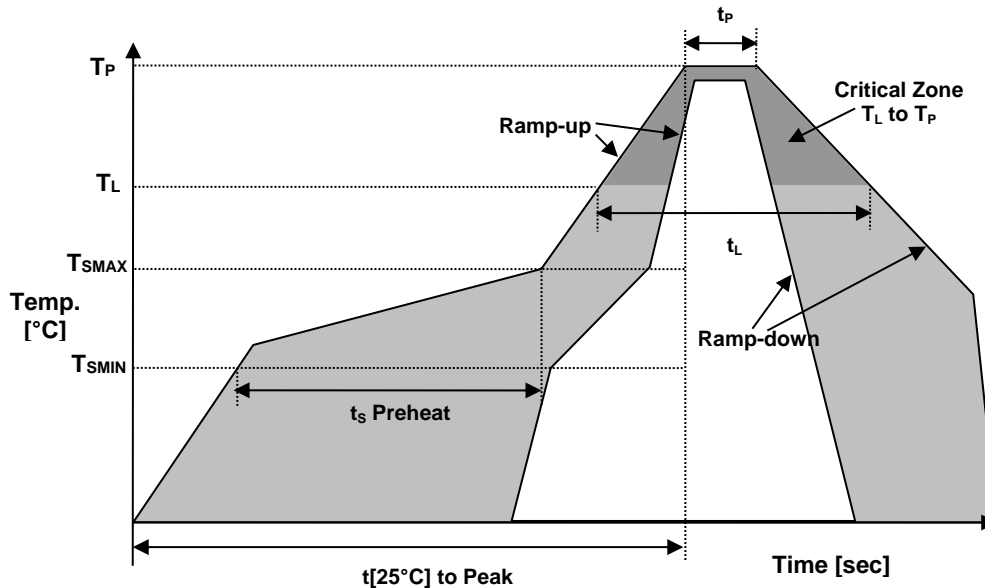
Solder Land Pattern



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_{SMIN}	150°C
Temperature Max Preheat	T_{SMAX}	200°C
Time (T_{SMIN} to T_{SMAX})	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 $t_{[25^\circ\text{C}]}$ to Peak Temperature	$t_{[25^\circ\text{C}]}$ 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



March, 2017