

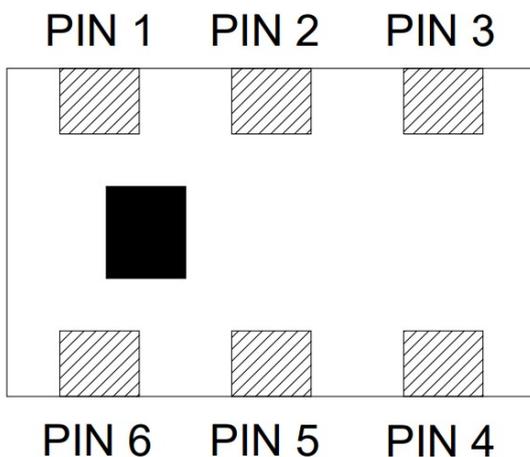
Features

- Low profile, high performance 3dB hybrid coupler
- Surface mount package
- Low insertion loss and tight amplitude and phase balance is required
- LTCC process

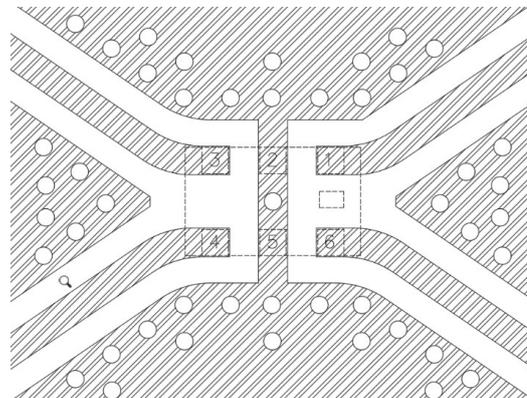
Specifications

NO.	Parameter		SPEC
1	Frequency range		7000~8500 MHz
2	Insertion Loss (avg of coupled outputs above 3.0 dB)	7000~8500 MHz	0.4 dB max.
3	Isolation	7000~8500 MHz	14.5 dB min.
4	Amplitude Unbalance	7000~8500 MHz	1.0 dB max.
5	VSWR	7000~8500 MHz	1.5 max.
6	Phase Unbalance	7000~8500 MHz	90 ± 7.0 degree
7	Power		4W (CW AVG.)
8	Operation Temperature Range		-55°C ~ +105°C

Construction



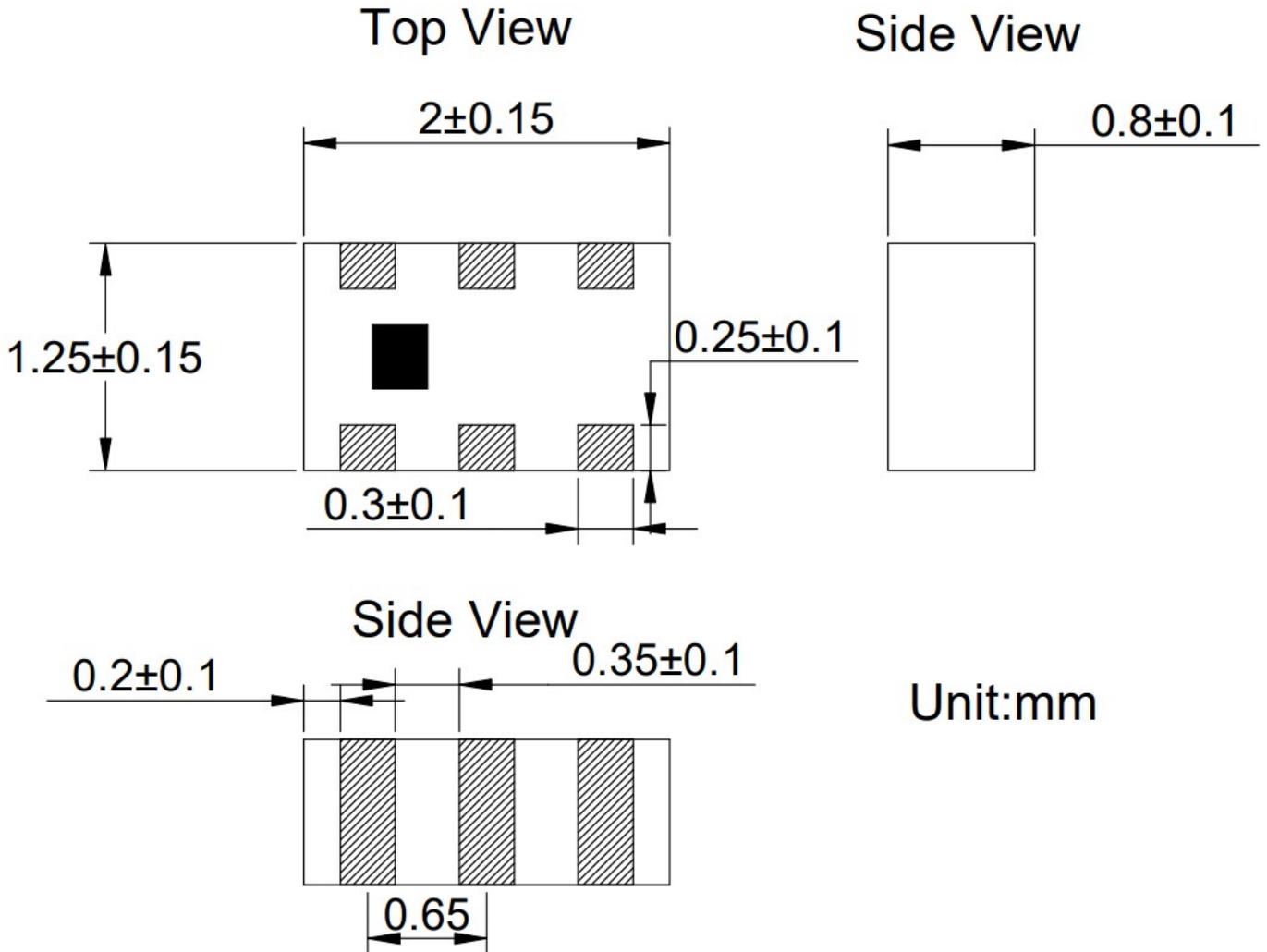
Mounting Considerations



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

Pin	Configuration-1	Configuration-2	Configuration-3	Configuration-4
1	Input	Isolated	Direct	Coupled
2	GND	GND	GND	GND
3	Isolated	Input	Coupled	Direct
4	Direct	Coupled	Input	Isolated
5	GND	GND	GND	GND
6	Coupled	Direct	Isolated	Input

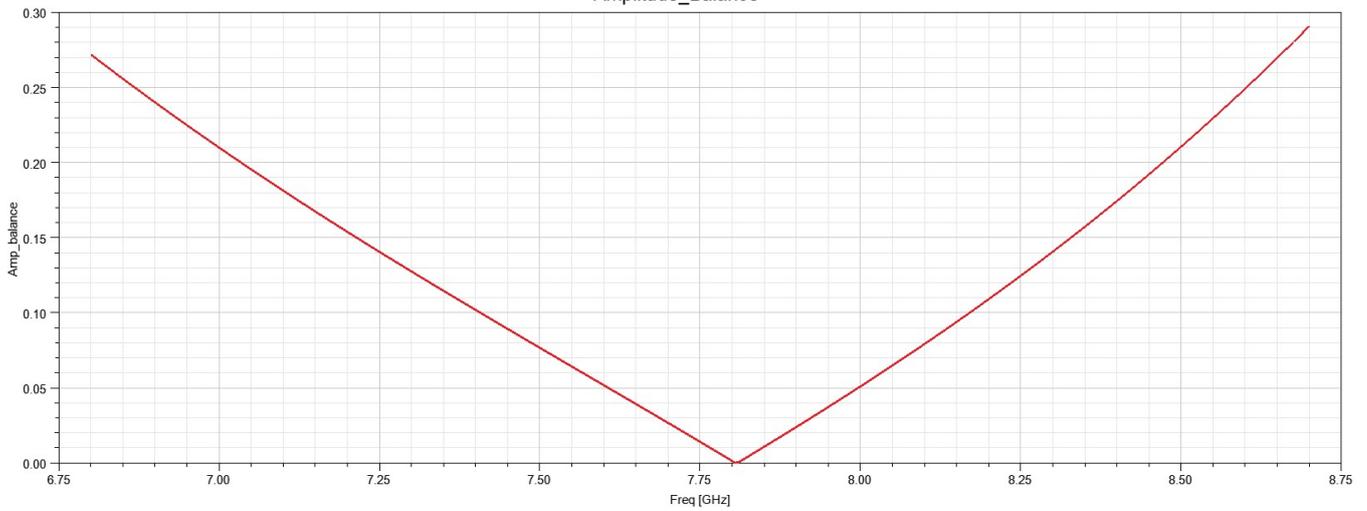
Dimensions (mm)



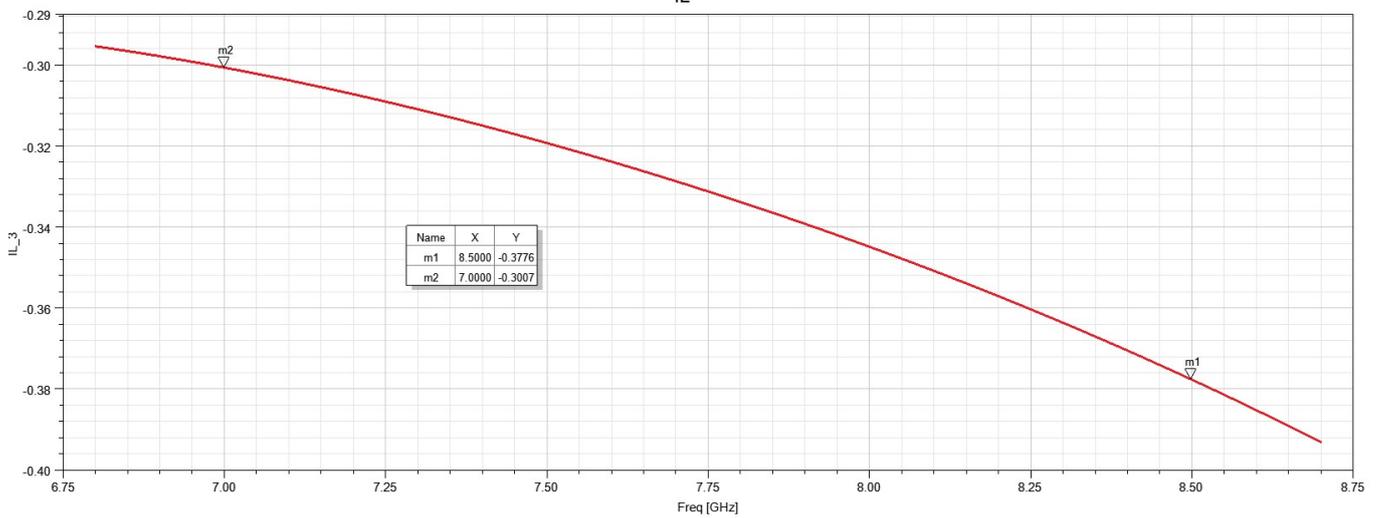
Typical Electrical Characteristics (T=25°C)



Amplitude_Balance



IL



Isolation

