

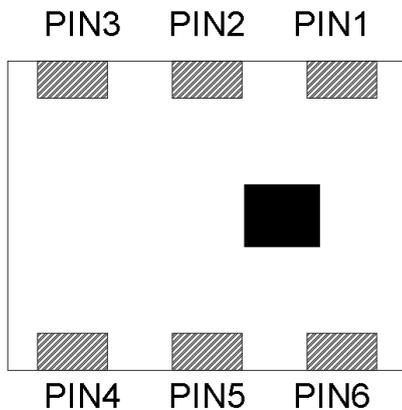
Features

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

Specifications

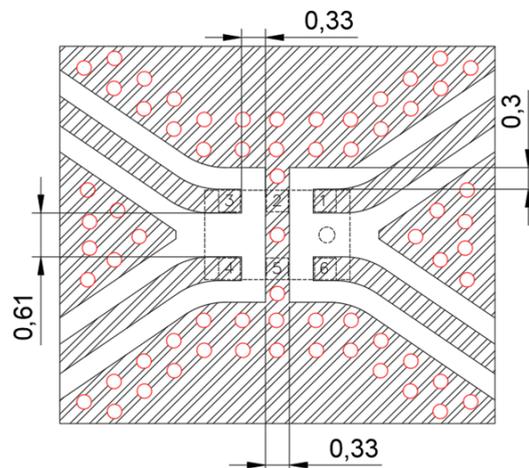
NO.	Parameter		SPEC
1	Frequency range		10000~12000 MHz
2	Insertion Loss (avg of coupled outputs above 3.0 dB)	10000~12000 MHz	0.5 dB max.
3	Isolation	10000~12000 MHz	19 dB min.
4	Amplitude Unbalance	10000~12000 MHz	±0.5 dB
5	VSWR	10000~12000 MHz	1.3 max.
6	Phase Unbalance	10000~12000 MHz	90 ± 4.0 degree
7	Power		5W (CW AVG.)
8	Operation Temperature Range		-55°C ~ +105°C

Construction



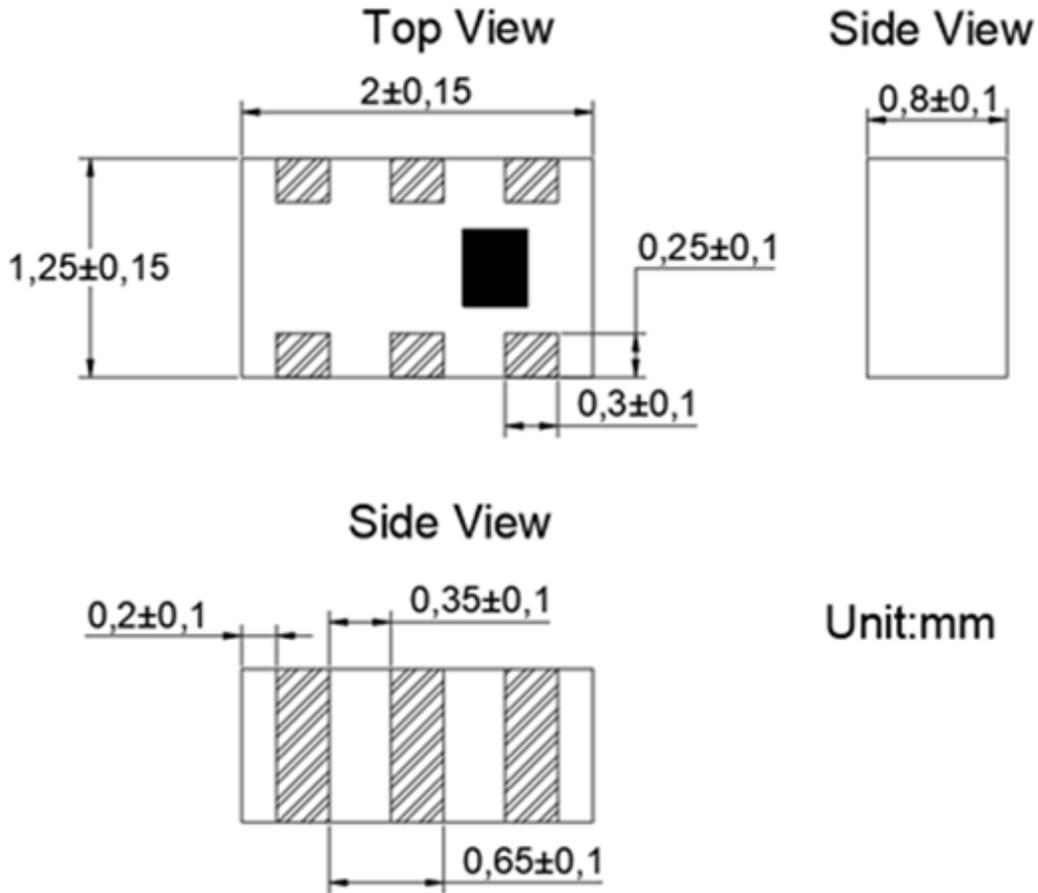
PIN	Connection
1	SUM PORT
2	GND
3	50 OHM TERM EXTERNAL
4	Direct
5	GND
6	Coupled

Mounting Considerations

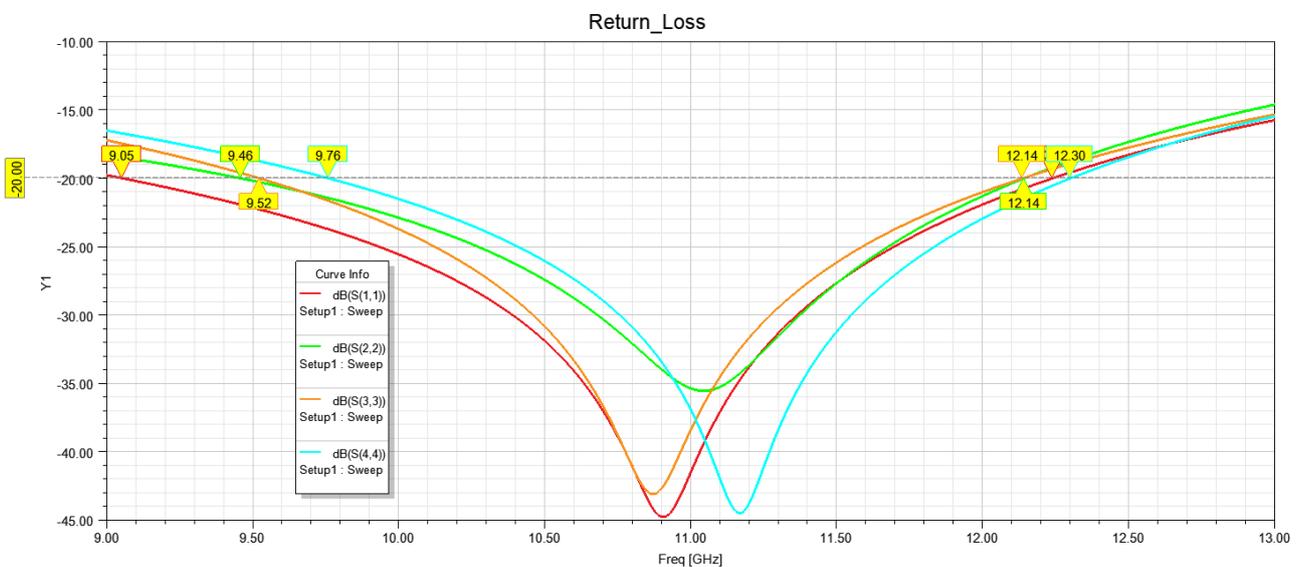


Unit: mm
 Line width to be designed to match 50 Ω characteristic impedance, depending on PCB material and thickness

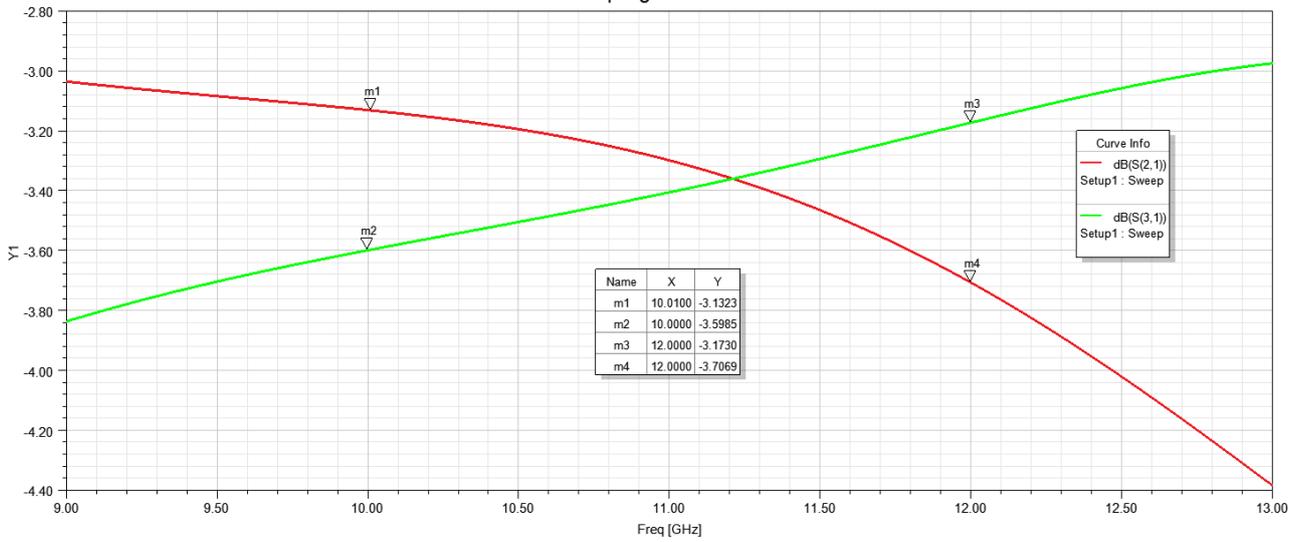
Dimensions (mm)



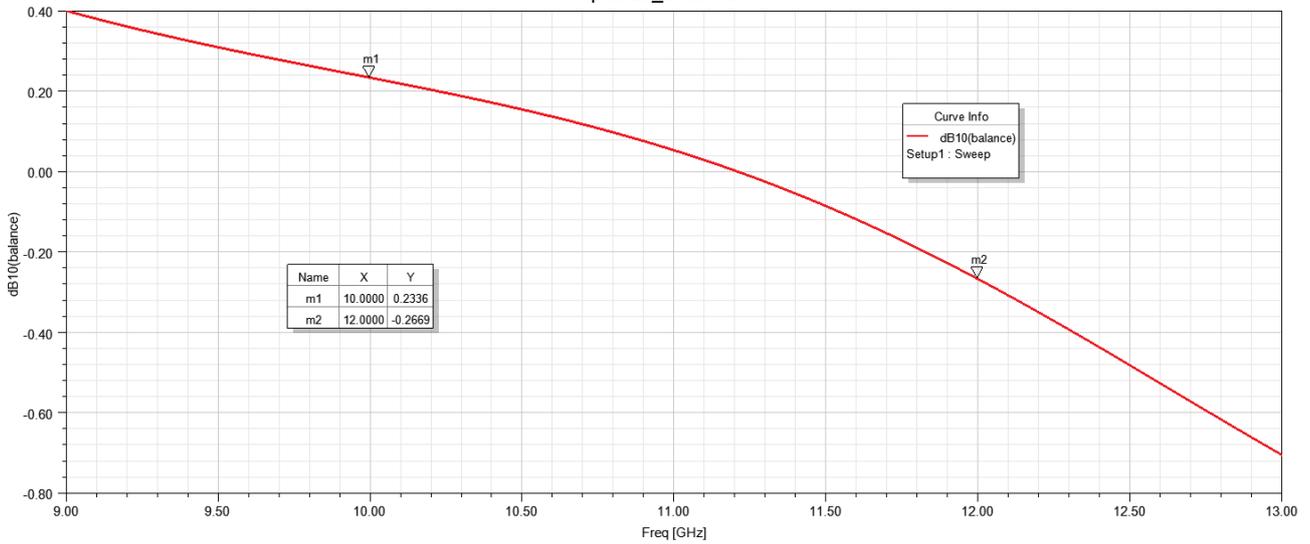
Typical Electrical Characteristics (T=25°C)



Coupling&Direct



Amplitude_balance



Phase_balance

