

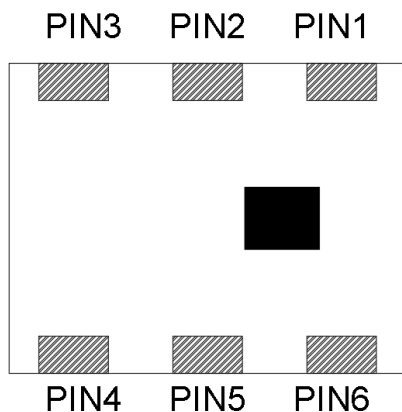
Features

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

Specifications

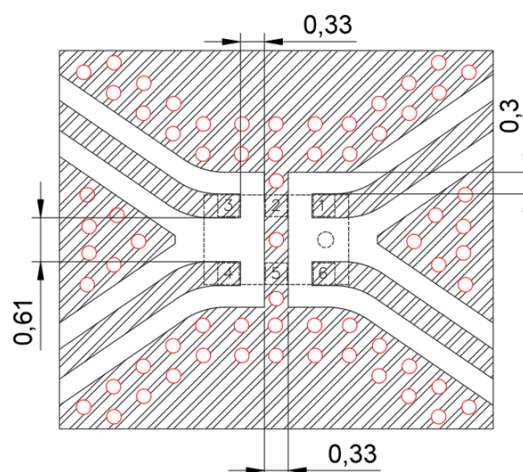
NO.	Parameter		SPEC
1	Frequency range		8000~10000 MHz
2	Insertion Loss (avg of coupled outputs above 3.0 dB)	8000~10000 MHz	0.45 dB max.
3	Isolation	8000~10000 MHz	19 dB min.
4	Amplitude Unbalance	8000~10000 MHz	±0.5 dB
5	VSWR	8000~10000 MHz	1.3 max.
6	Phase Unbalance	8000~10000 MHz	90 ± 4.0 degree
7	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

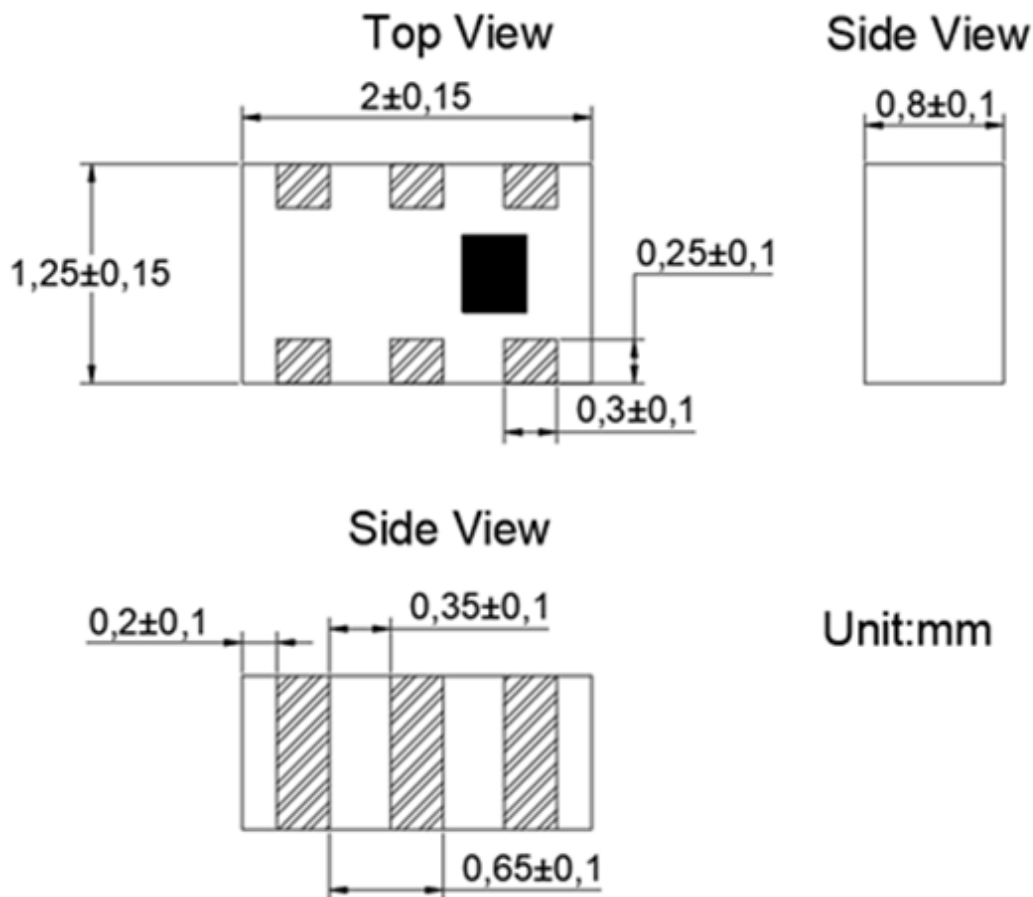
Mounting Considerations



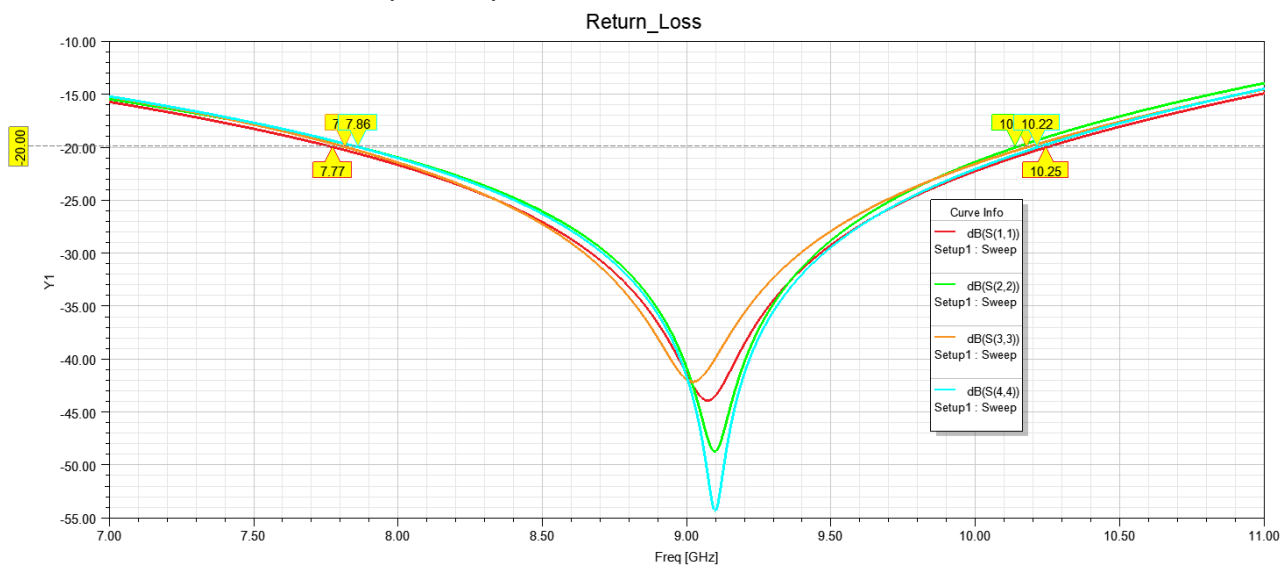
Unit: mm

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

Dimensions (mm)



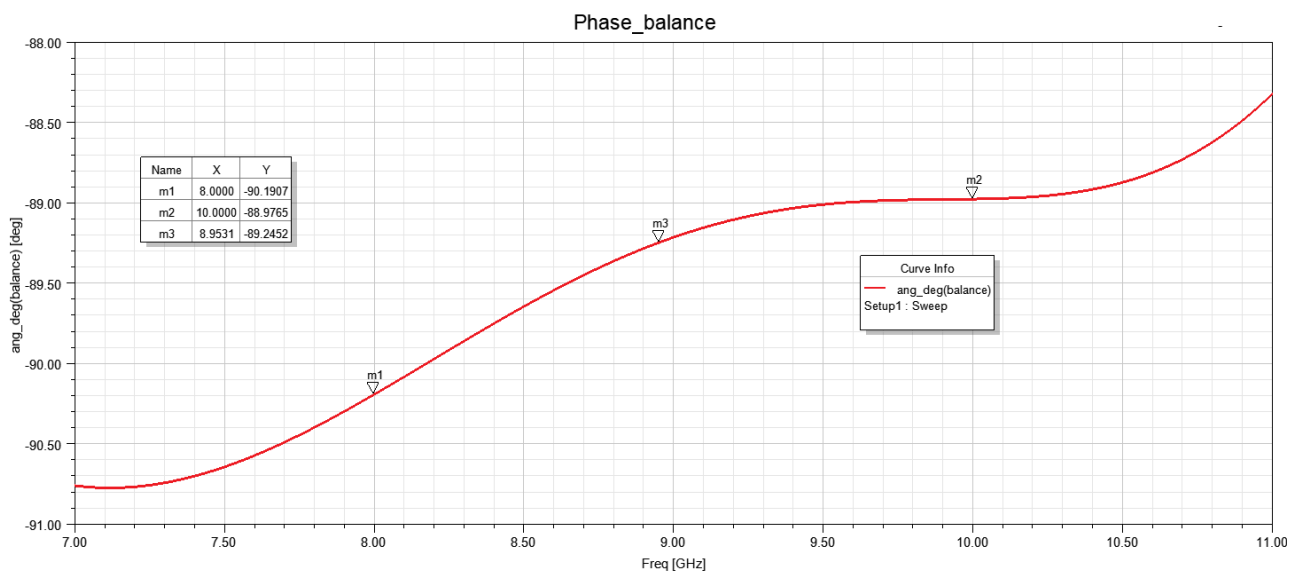
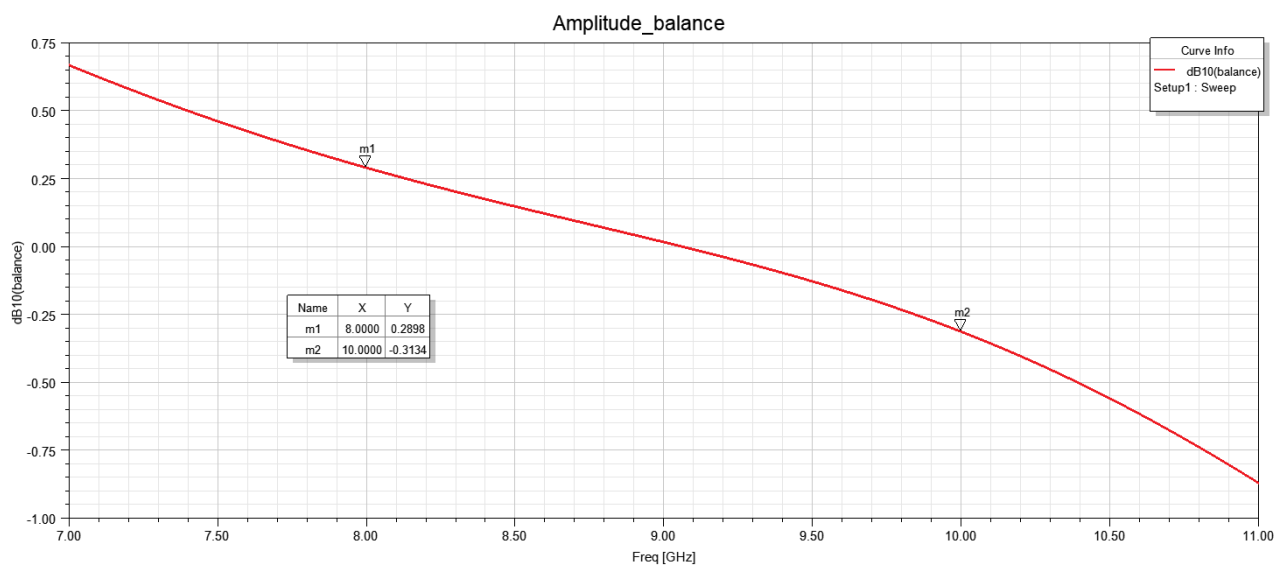
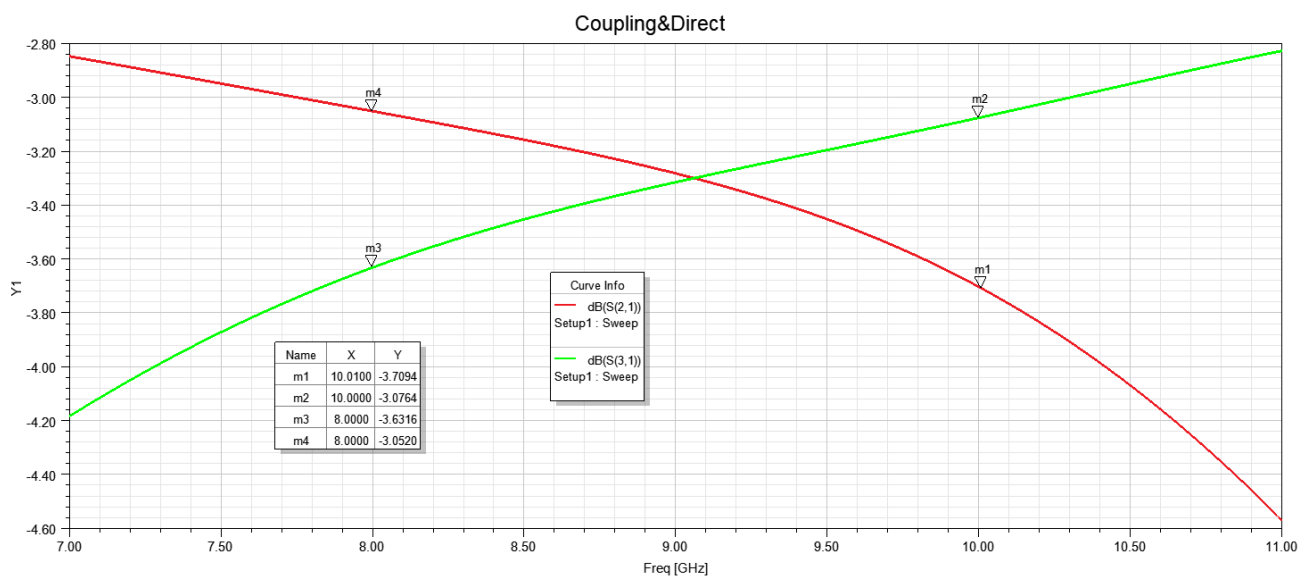
Typical Electrical Characteristics (T=25°C)



Yantel Corporation

Add: No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China
 Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

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