

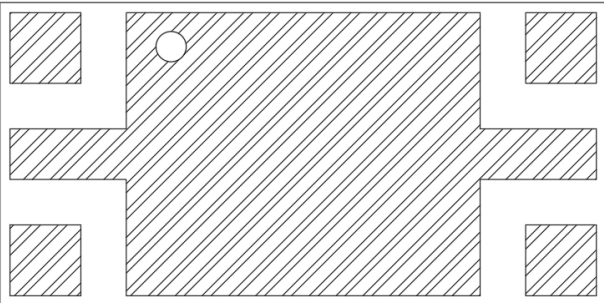
Features

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

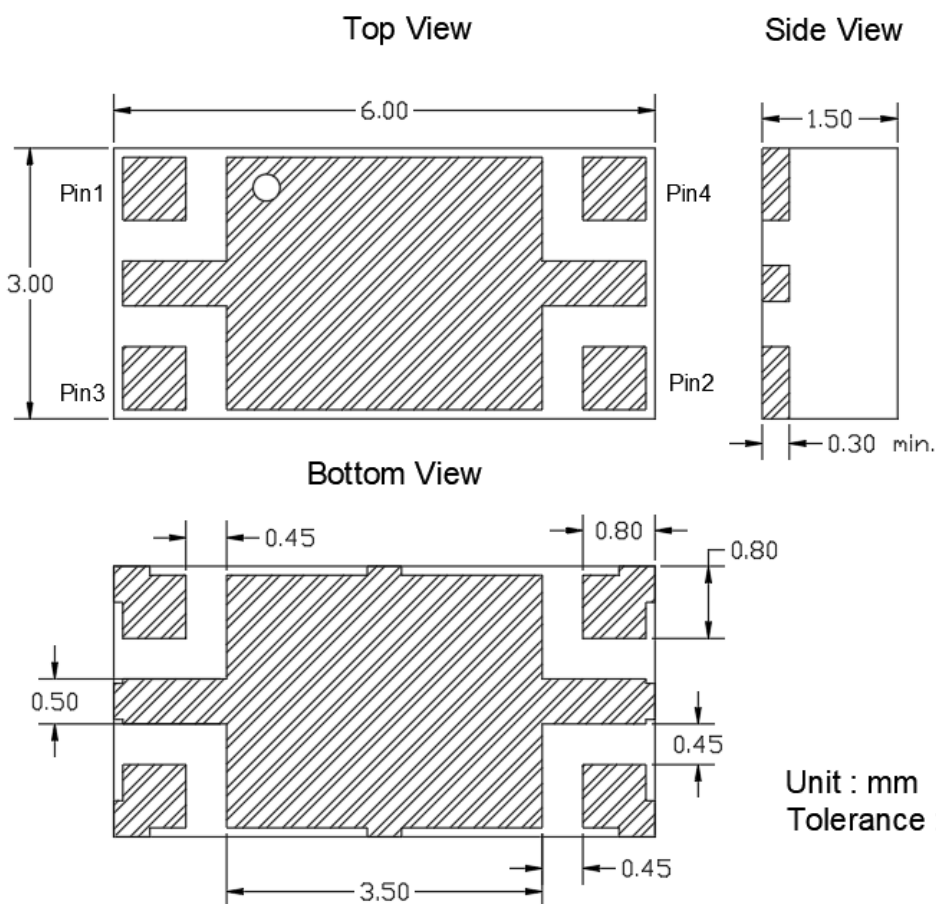
Specifications

NO.	Parameter		SPEC
1	Frequency range		1700~2300 MHz
2	Insertion Loss (Avg of coupled outputs above 3.0 dB)	1700~2000 MHz	0.3 dB max.
		1805~1880 MHz	0.3 dB max.
		1930~1990 MHz	0.3 dB max.
		2000~2300 MHz	0.3 dB max.
3	Isolation	1700~2000 MHz	21 dB min.
		1805~1880 MHz	21 dB min.
		1930~1990 MHz	21 dB min.
		2000~2300 MHz	22 dB min.
4	Amplitude Unbalance	1700~2000 MHz	± 0.30 dB max.
		1805~1880 MHz	± 0.20 dB max.
		1930~1990 MHz	± 0.25 dB max.
		2000~2300 MHz	± 0.30 dB max.
5	VSWR	1700~2000 MHz	1.2 max.
		1805~1880 MHz	1.17 max.
		1930~1990 MHz	1.17 max.
		2000~2300 MHz	1.17 max.
6	Phase Unbalance	1700~2000 MHz	90 ± 2.0 degrees
		1805~1880 MHz	90 ± 2.0 degrees
		1930~1990 MHz	90 ± 2.0 degrees
		2000~2300 MHz	90 ± 2.0 degrees
7	Power		2W (CW max.)
8	Operation Temperature Range		-55°C ~ +105°C

Construction

	PIN	Connection
	1	SUM PORT
	2	PORT 1 (0°)
	3	50 OHM TERM EXTERNAL
	4	PORT 2 (90°)

Dimensions (mm)



Unit : mm
Tolerance : ± 0.2

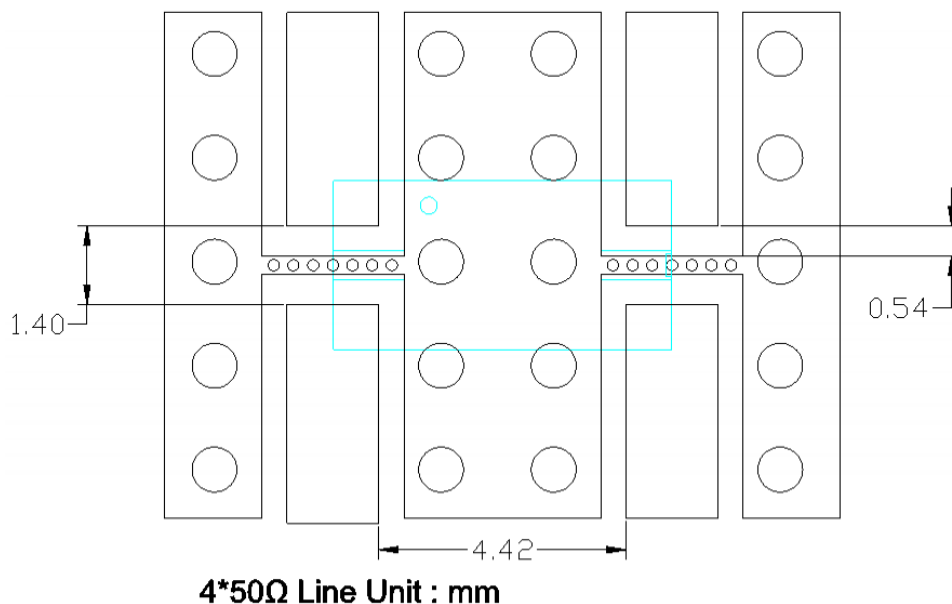
Yantel Corporation

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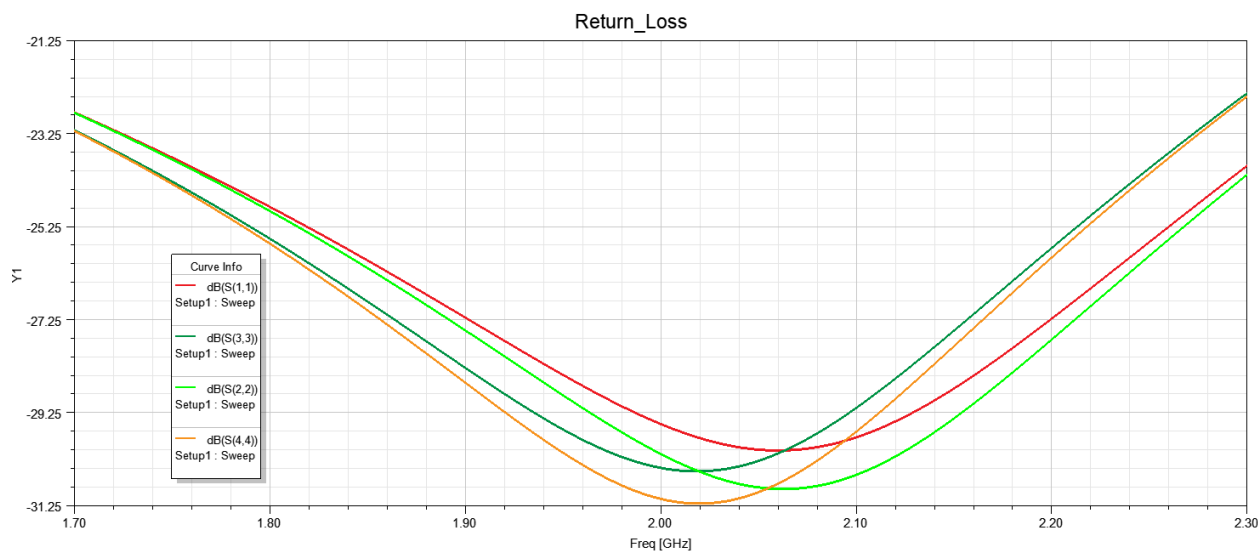
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Mounting Considerations



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

Typical Electrical Characteristics (T=25°C)

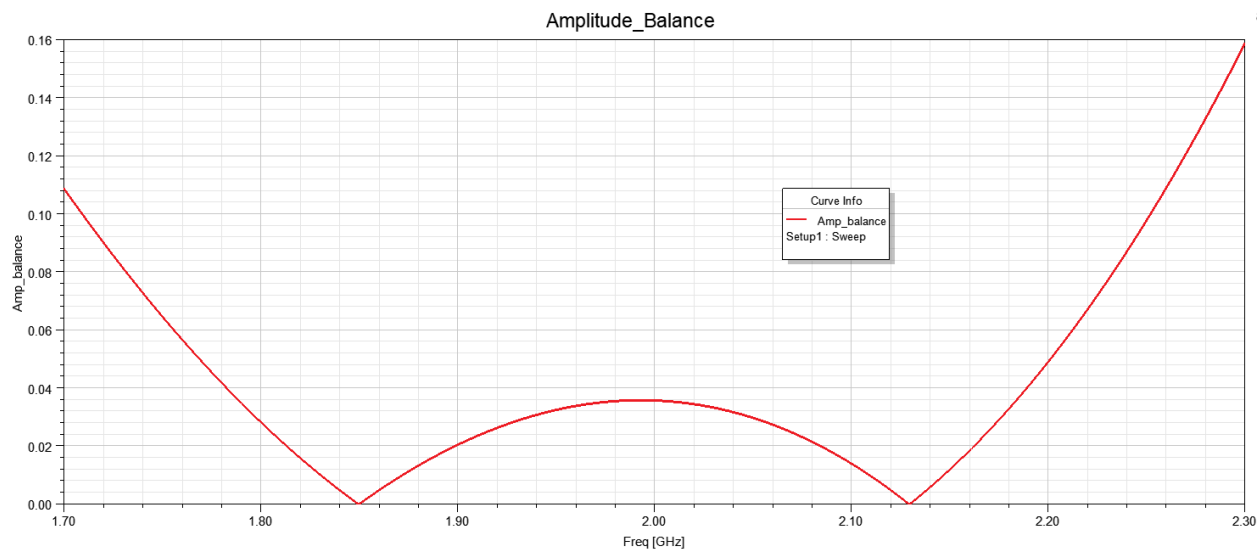
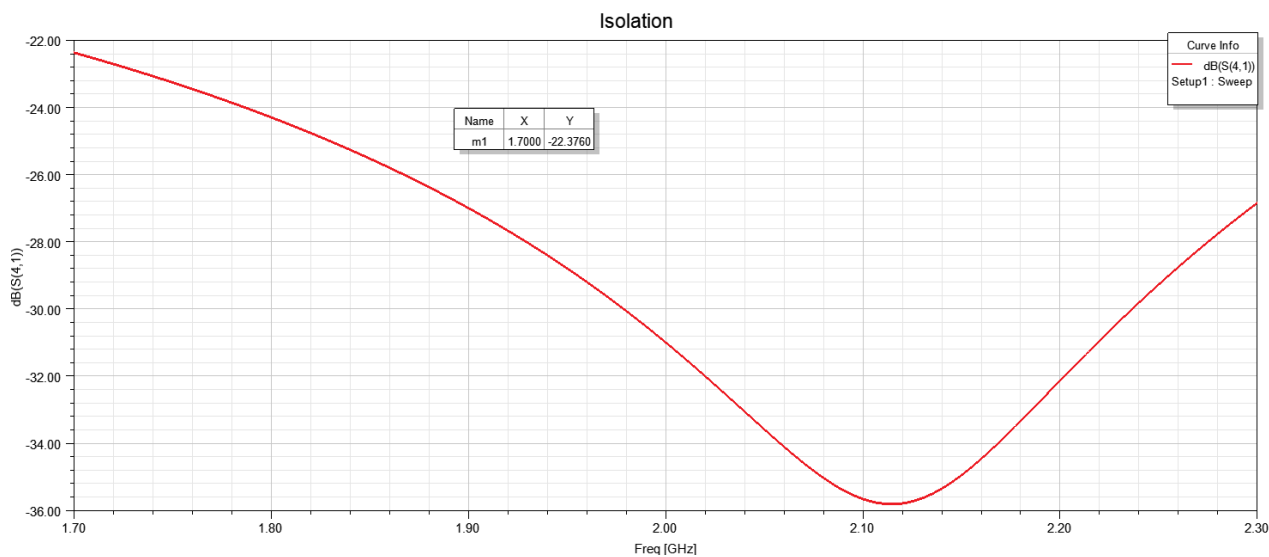
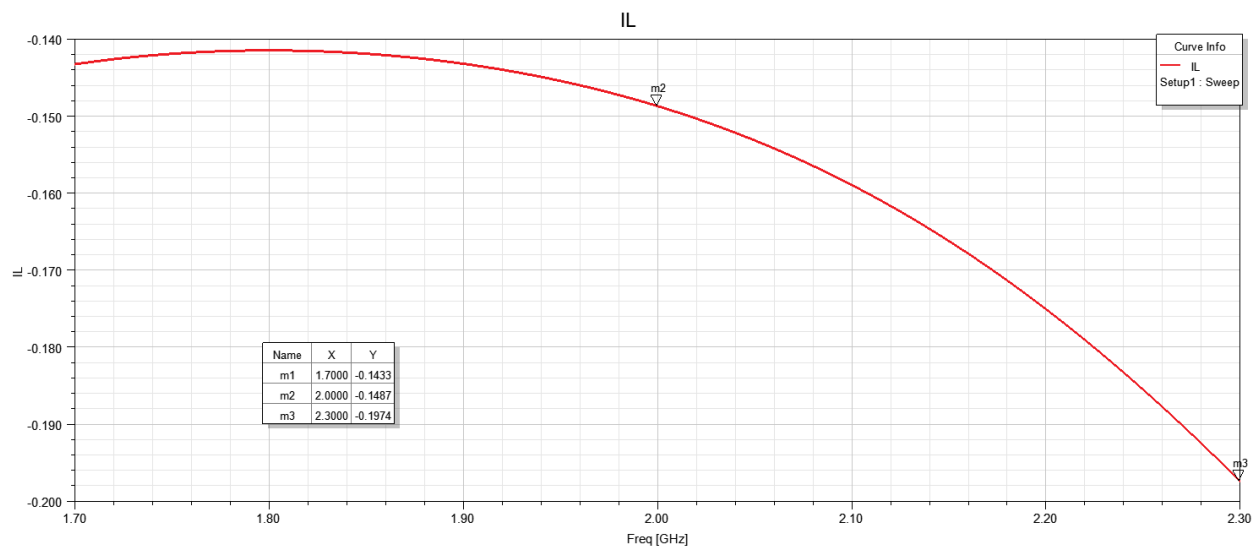


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