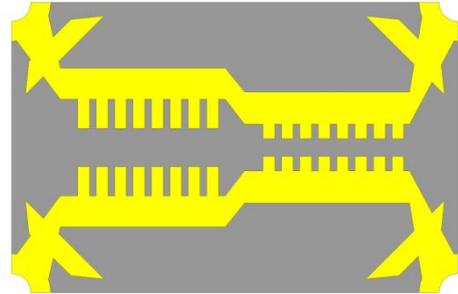


## DESCRIPTION

Yantel introduces its new high frequency, wide band surface mountable catalog direction couplers. These couplers incorporate Yantel's high dielectric ceramic materials which provide small size and minimal performance variation over temperature. They are available in symmetrical and Asymmetrical versions.



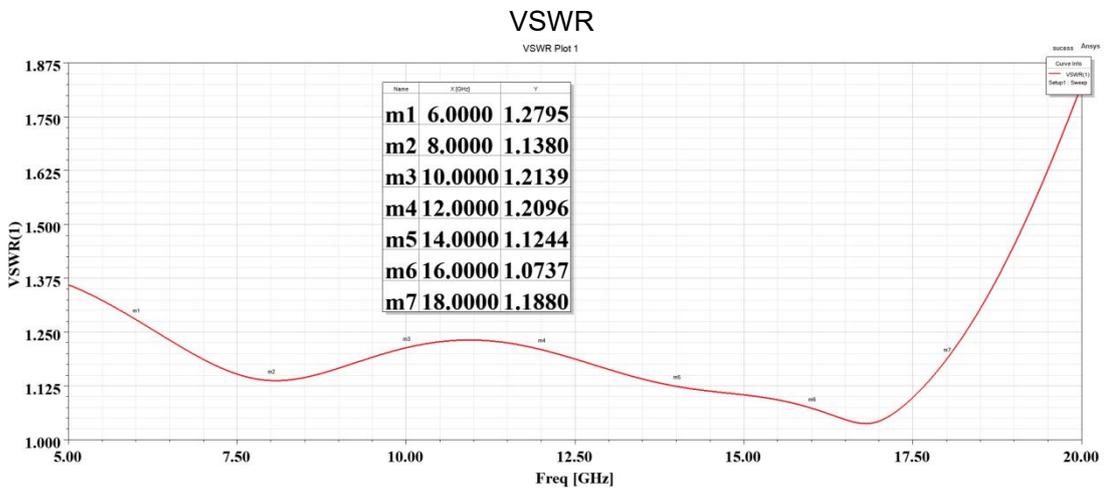
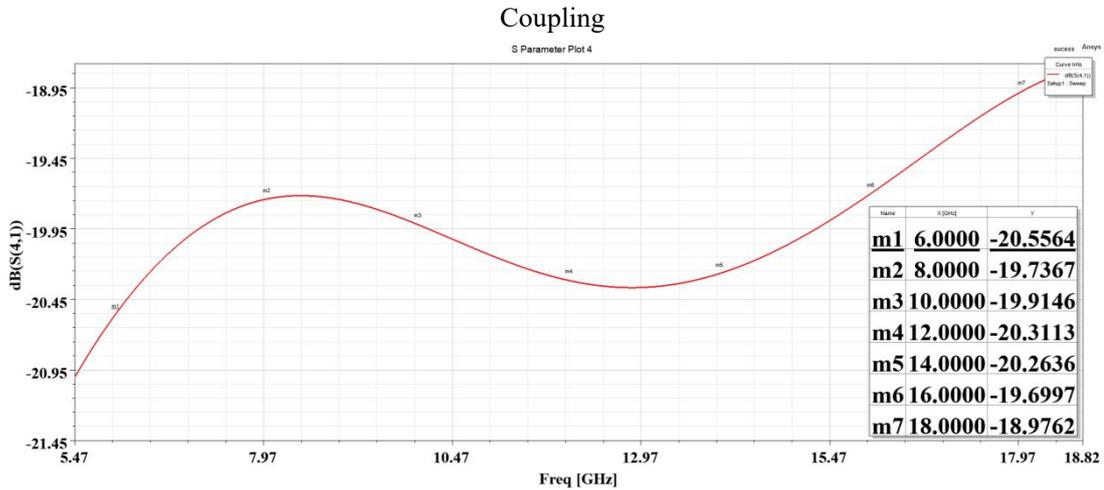
## FEATURES

- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating & Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

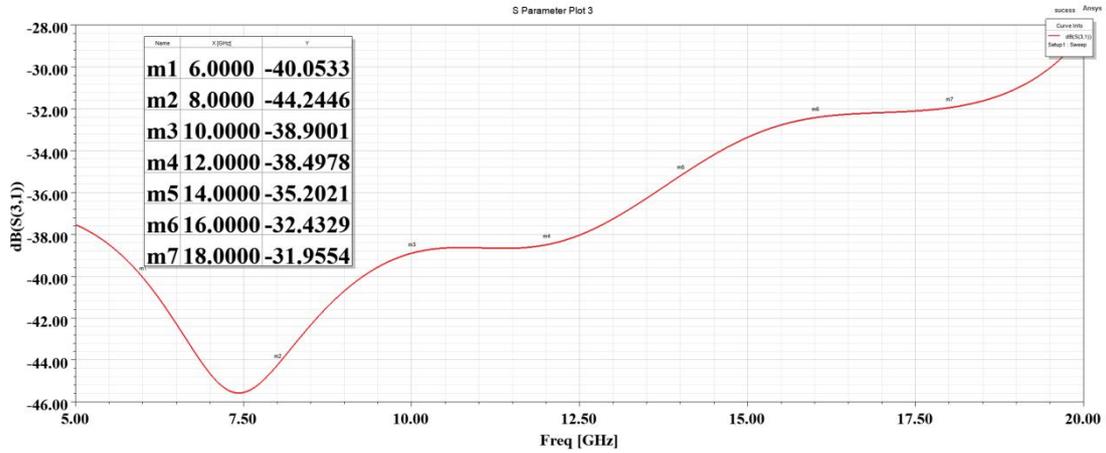
## Electrical Specifications

Parameter	Specification
Frequency Range	6~18GHz
Passband Insertion Loss*	≤1dB
Passband Return Loss	≥18dB
Coupling	20-21.5dB
Directivity	≥10dB
Input Power	5W
Characteristic Impedance	50 Ω
Package Size	0.18 x 0.11 x 0.015 in 4.572 x 2.794 x 0.381mm

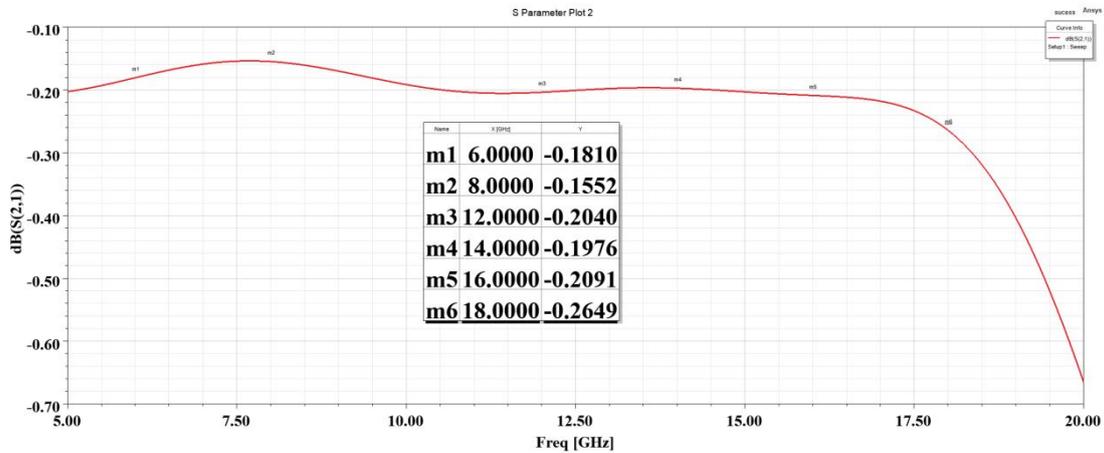
\*Electrical specifications based on typical mounted performance at room temperature. Insertion loss shall vary ±0.5dB over temperature.

**Typical Measured Performance**


### Isolation

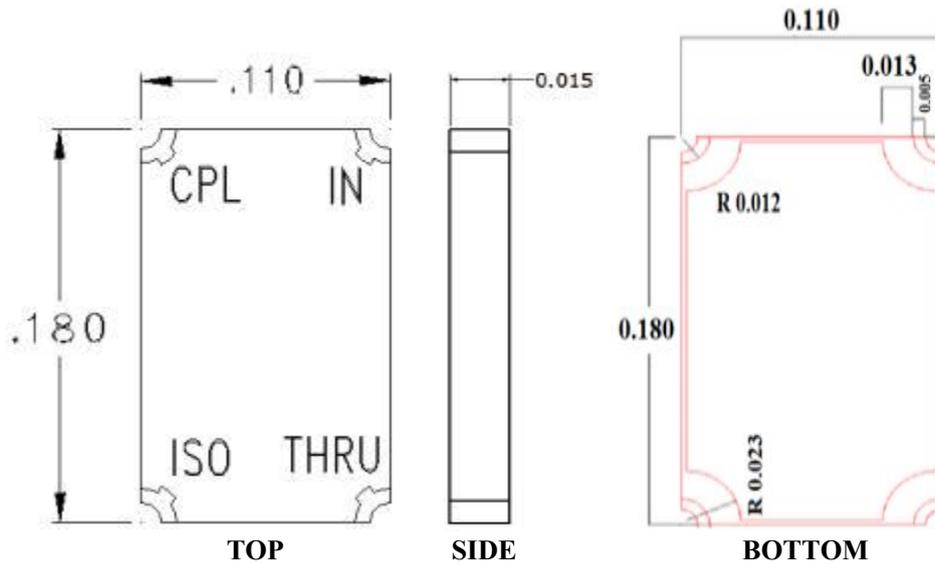
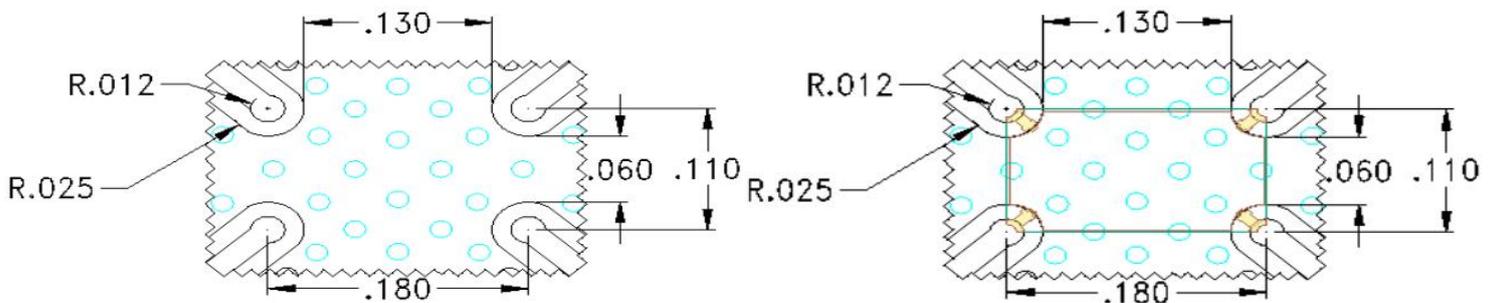


### Insertion Loss



**Physical Dimensions**

Units = mils


**Recommended PCB Layout**


- 50Ω trace dimensions are application specific.
- 50Ω trace dimensions are designed for 10 mils R04350B Roger Board.
- Ensure adequate grounding beneath the part.
- Trace feed locations can be horizontal, vertical, or angled.