

DESCRIPTION

Yantel brand directional couplers utilize Yantel's high dielectric ceramic materials to deliver small size and minimal performance variation over temperature. The components are well matched for monitoring incident and reflected power.

FEATURES

- Small Size
- Fully Shielded Component
- Solder Surface Mount Package
- Moisture Sensitivity Level: MSL1
- Frequency Stable over Temperature
- Operating Temp: -45°C to +85°C
- Storage Temp: -55°C to +125°C
- Characteristic Impedance: 50Ω

Electrical Specifications

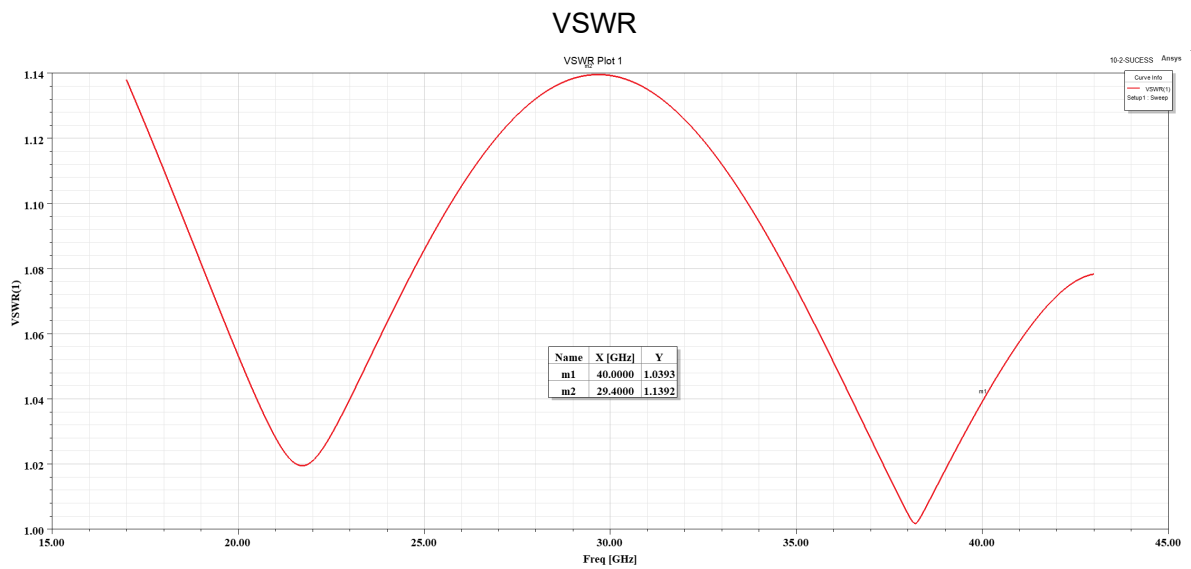
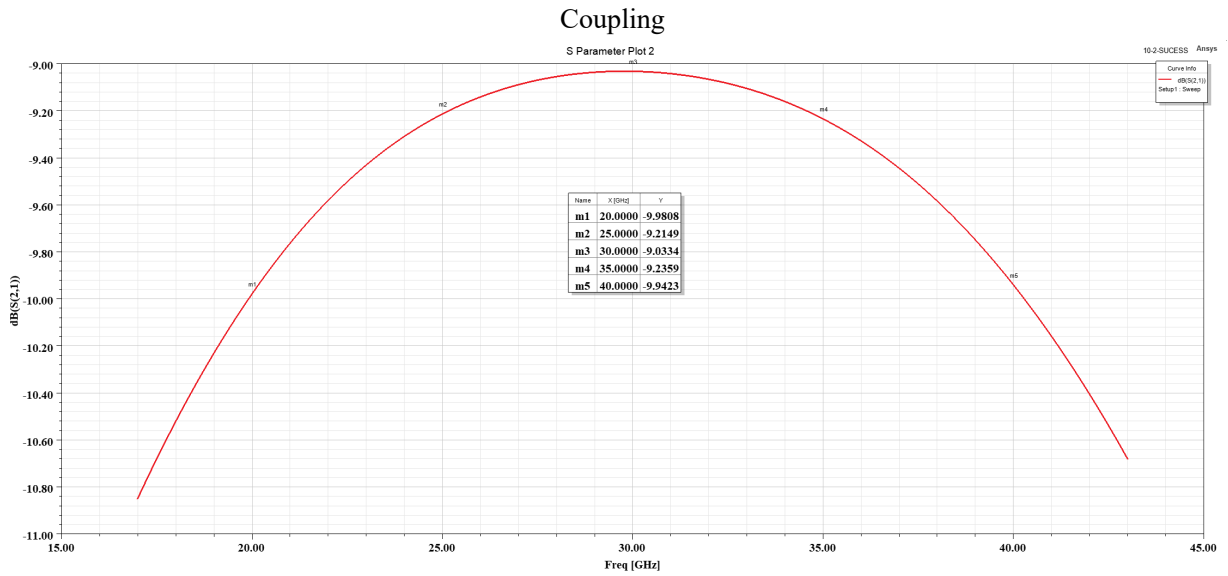
Parameter	Specification
Frequency Range	20~40GHz
Passband Insertion Loss	≤1.5dB
Passband VSWR	≤1.8
Coupling	8.5-11.5dB
Isolation	≥20dB
Input Power	35dBm
Package Size	1.651mm×1.27mm×0.254mm
Operating Temp	-45°C to +85°C
Storage Temp	-55°C to +125°C

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

For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

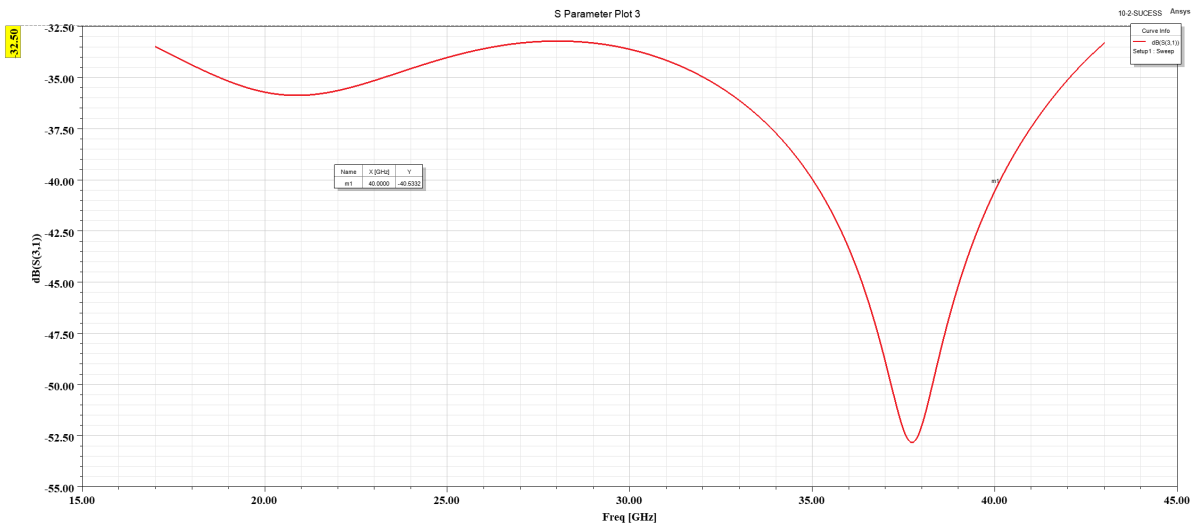
Typical Measured Performance

Yantel Corporation

Add: No.308-322,3F,Building 1,Juchuang Jingu Innovation Park,Wenyuan Road 35,Xili Street,Nanshan,Shenzhen,China

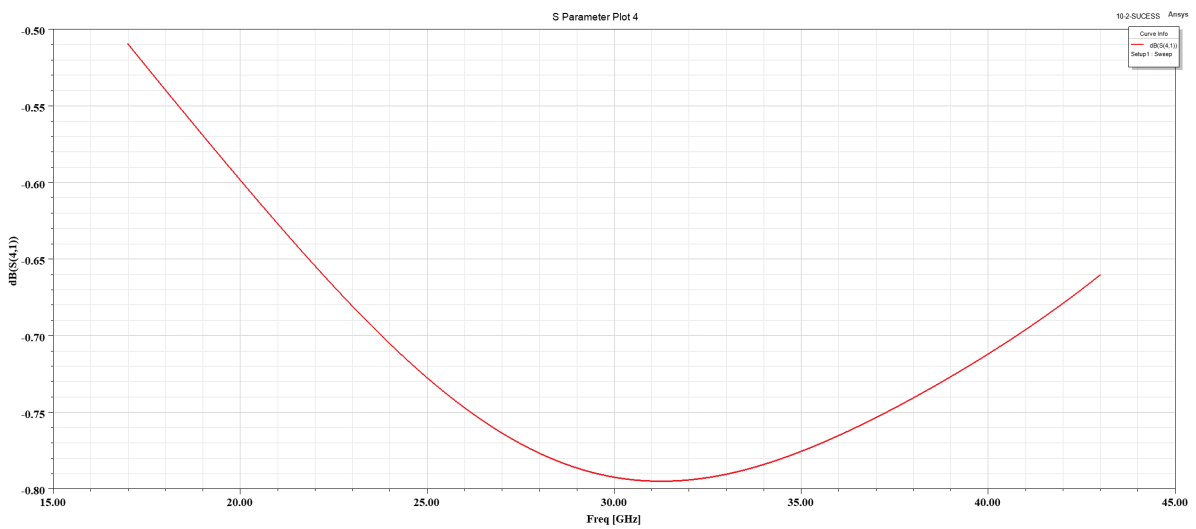
Tel: 86-755-8355-1886 Fax: 86-755-8355-2533

 For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Isolation



Insertion Loss

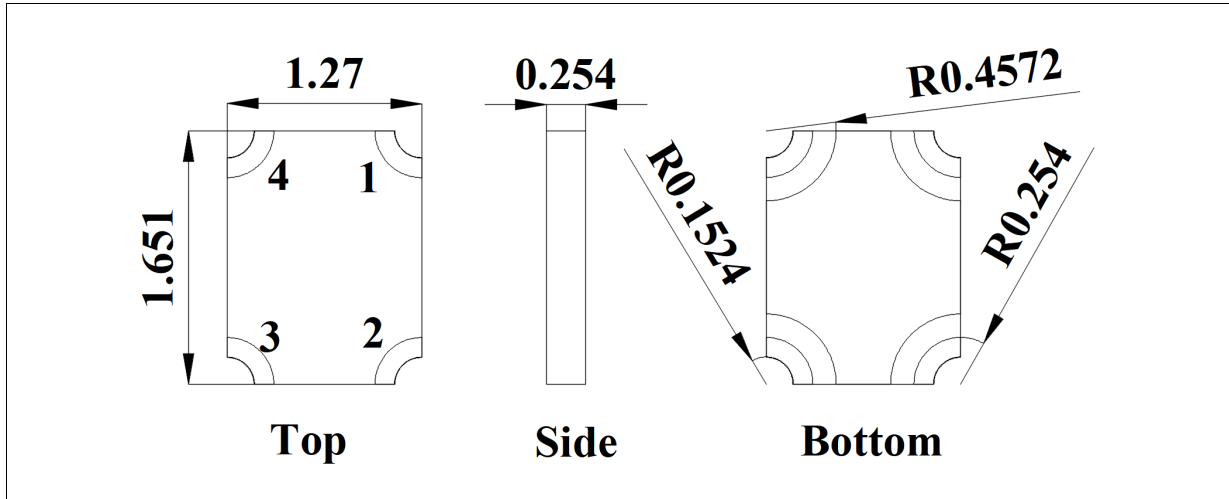


Yantel Corporation

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

For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com

Physical Dimensions Units=mm


Marking dimensions	A: 1.651mm B: 1.27mm (the dimension unit in the drawing is mm, A、B dimension tolerance: $\pm 0.1\text{mm}$)
Substrate material	ceramic
Surface treatment	gold-plate

YT-FPC07182 Coupler Port Configuration				
	Port1	Port2	Port3	Port4
Configuration 1	Input	Output	Isolated	Coupled
Configuration 2	Output	Input	Coupled	Isolated
Configuration 3	Coupled	Isolated	Output	Input
Configuration 4	Isolated	Coupled	Input	Output

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

 For detailed performance specs & shopping online see Yantel web site : www.yantel-corp.com