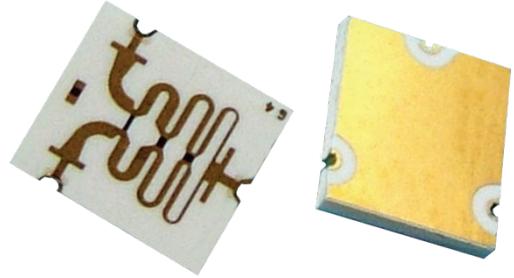


## DESCRIPTION

Yantel introduces its new high frequency surface mountable Wilkinson Power Divider. The power divider utilizes Yantel's high dielectric ceramic material which provides small size and minimal performance variation over temperature. The compact size, broad band performance and ease of integration make this power divider ideal anywhere board space is of a premium and quality signal splitting or combining is required.

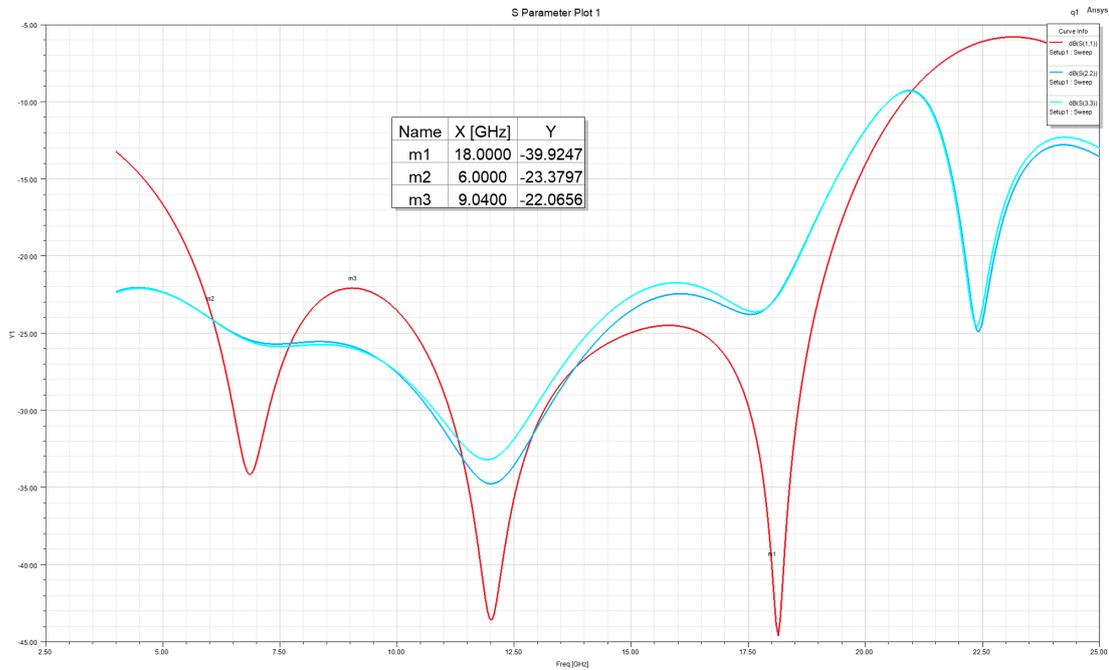
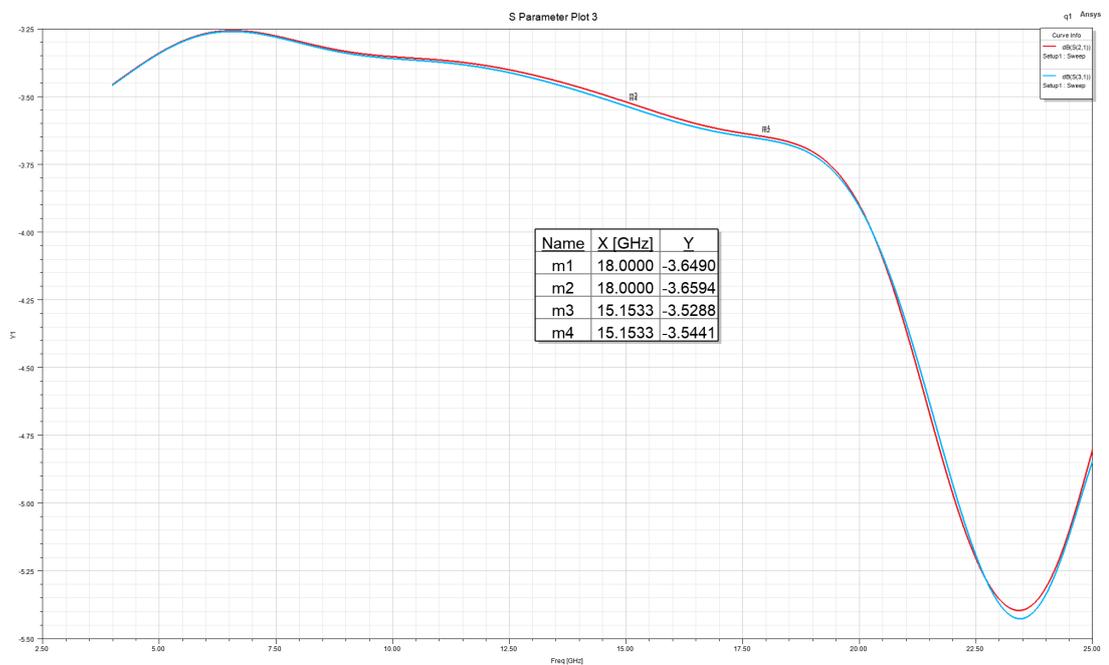


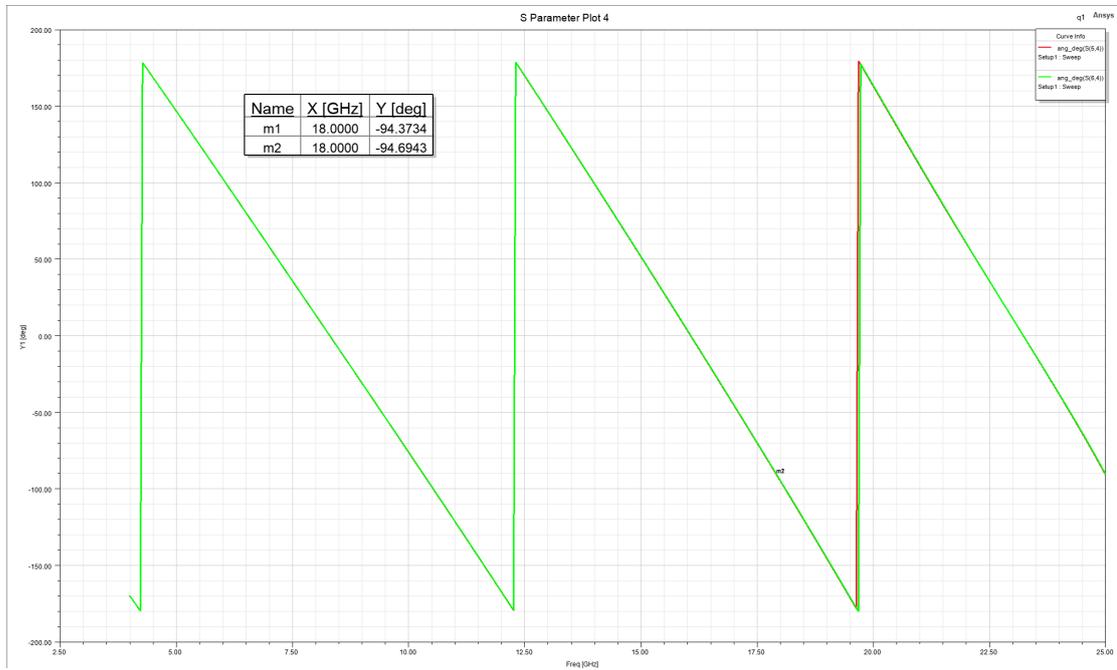
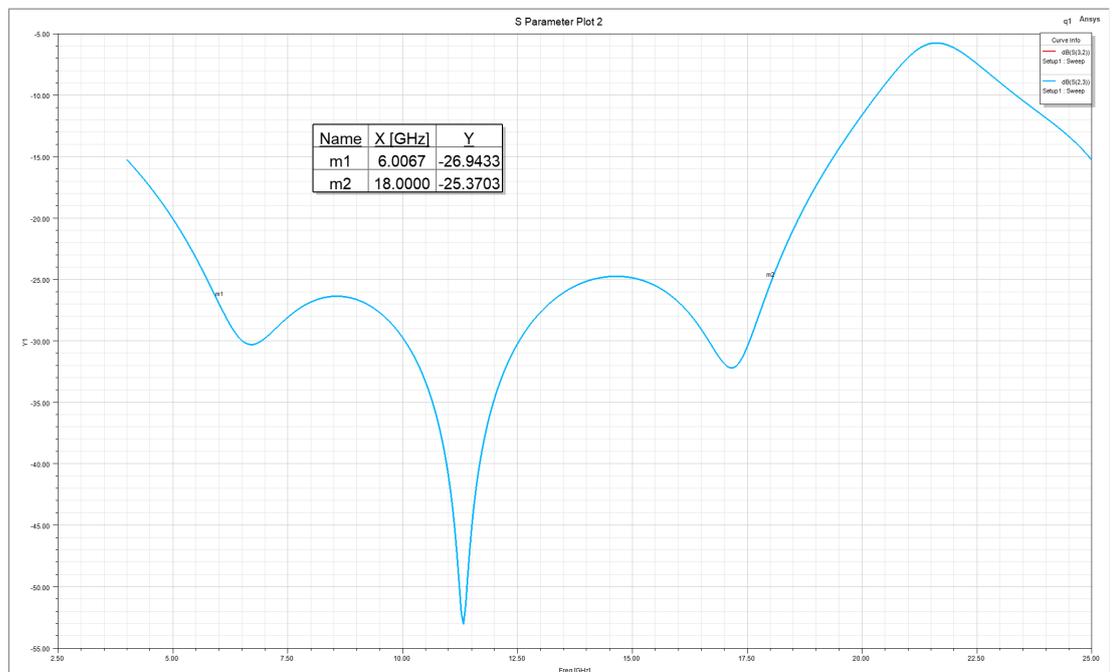
## FEATURES

- Broad Band 6 to 18 GHz Performance
- 20dB Typical Isolation and Return Loss
- Excellent Phase and Amplitude Balance
- Compact Solder Surface Mount Package

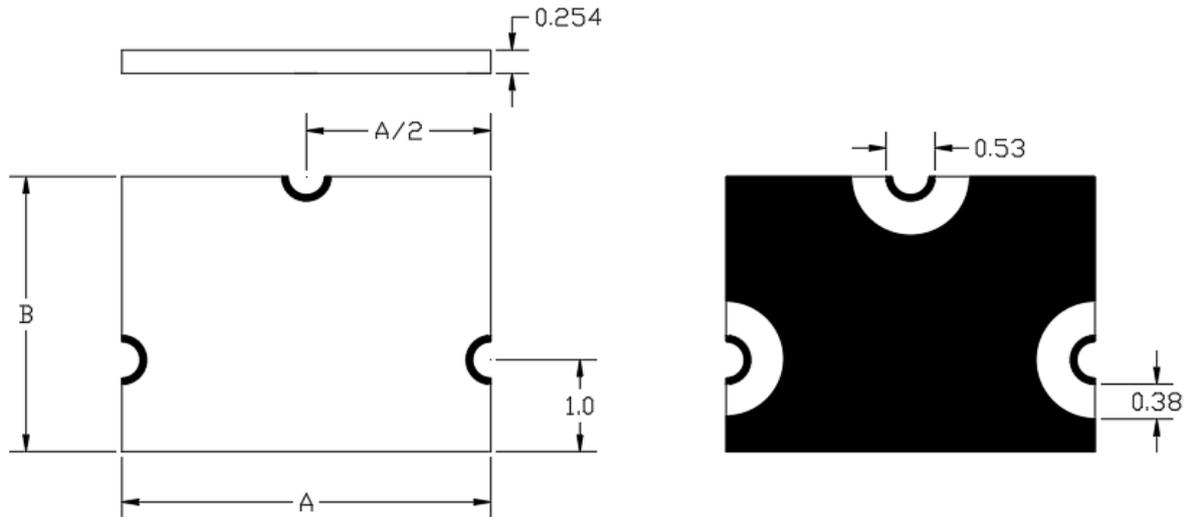
## Electrical Specifications at 25°C

Parameter	Specification
Frequency Range	6GHz ~ 18GHz
VSWR	$\leq 2.0$
Insertion Loss	$\leq 4\text{dB}$
In-Band Flatness	$\leq 1.2\text{dB}_{\text{p-p}}$
Isolation	$\geq 15\text{dB}$
Phase Balance	$< \pm 3^\circ$
Amplitude Balance	$< \pm 0.1 \text{ dB}$
Characteristic Impedance	50 $\Omega$
Output Install	Bonding/SMD
Package Size	4mm*4.7mm*0.254mm

**Typical Measured Performance**
**Return Loss**

**Insertion Loss**


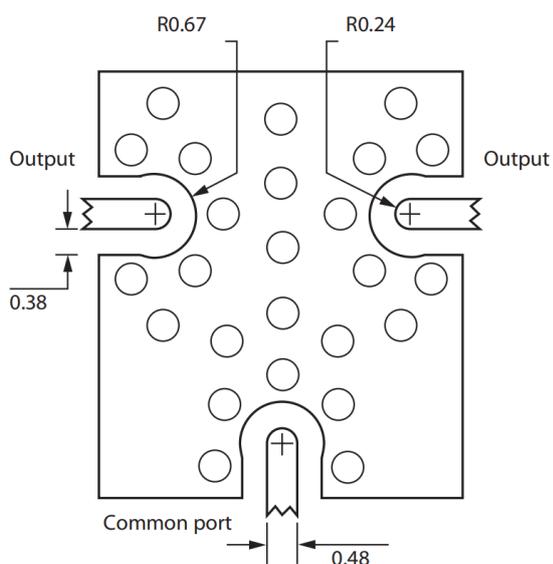
**Phase Balance**

**Isolation**


## Mechanical Outline



Unit	mm
Identification size	A: 4.0、B: 4.7 (A/B tolerance: ±0.1mm)
Base material	Ceramics
Surface process	Gold plating

## Recommended PCB Layout



Recommended PCB Board Material : 10 mil RO4350