

## Features

- Wide band operation
- High isolation within operational band
- Low Insertion loss
- Low temperature coefficient material offer stable performance over temperature
- LMDS multi-carrier operation
- High peak to average handle capability
- All specifications can be modified upon request



Parameters		Min.	Typ.	Max.	Units
Frequency Range		22		45	GHz
Nominal Coupling			3		dB
Insertion Loss			3.0	3.5	dB
Isolation		10	13		dB
Amplitude Imbalance			±0.8	±1.2	dB
Phase Imbalance			±10	±15	deg
VSWR			1.6	1.9	: 1
Power Rating	Average	20			W
	Peak	200 (10% Duty Cycle, 1 us Pulse Width)			W
Impedance		50			Ohms
Weight		1.5 Max.			ounces
Input / Output Connectors		2.4mm-Female			
Material		Aluminum			
Finish		Gray paint			

**Environmental Specifications**

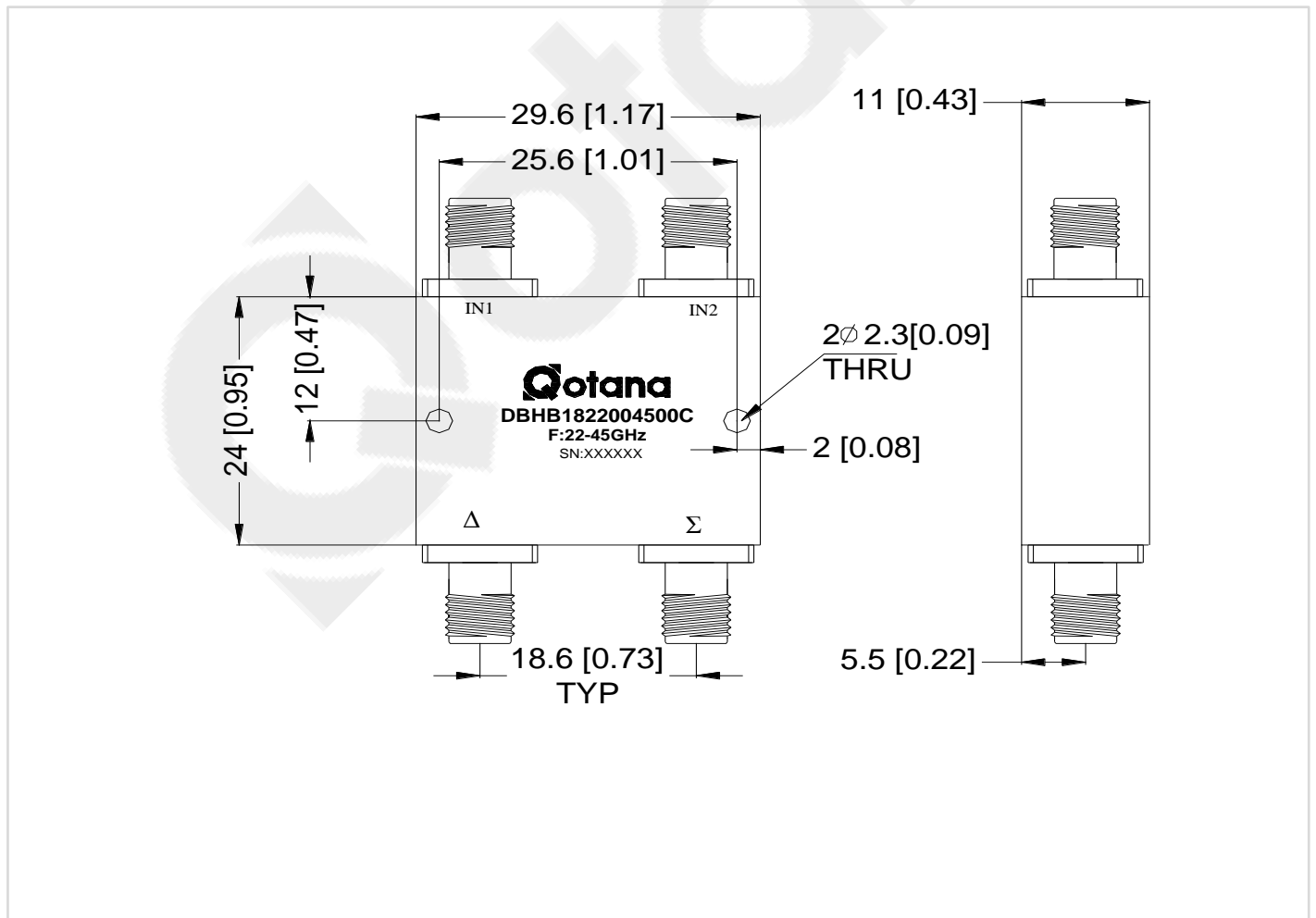
Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°c
Shock	20G for 11msec half sine wave,3 axis both directions

**Outline Drawing:**

All Dimensions in mm(inches)

Outline Tolerances ±0.5(0.02)

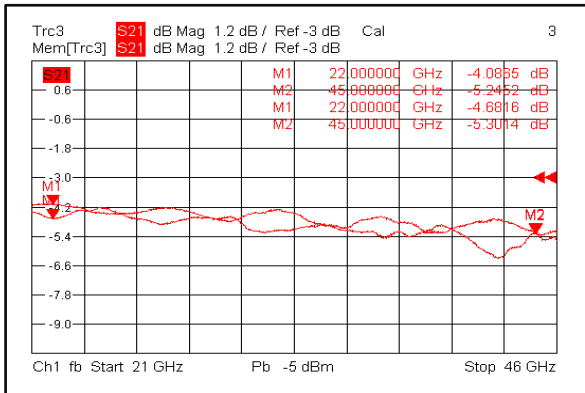
Mounting Holes Tolerances ±0.2(0.008)



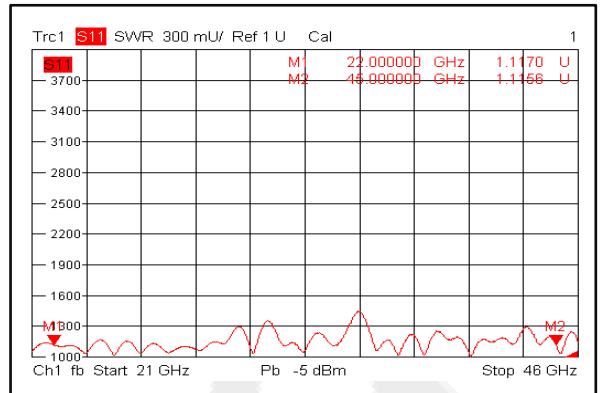
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**Coaxial 20 W 22-45GHz 180° Hybrid Coupler**

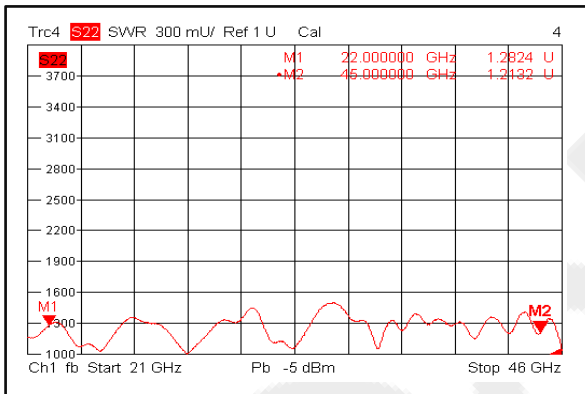
**Loss & Amplitude Imbalance**



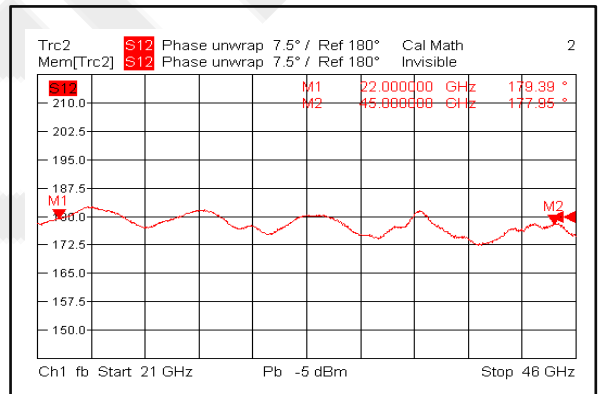
**Input VSWR**



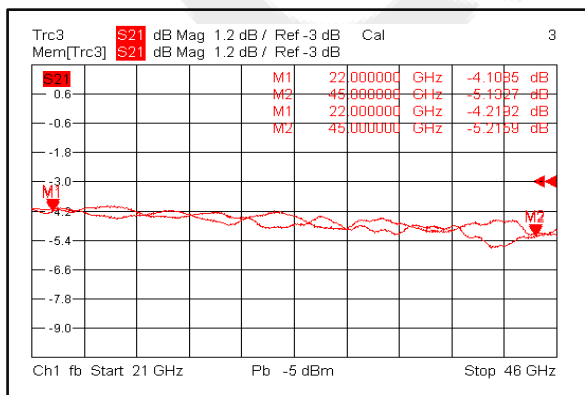
**Output VSWR**



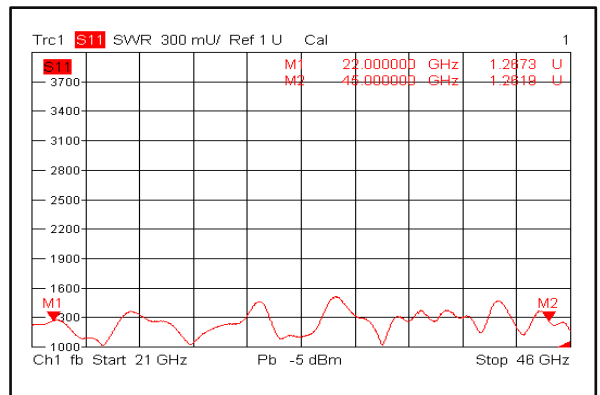
**Phase Imbalance**



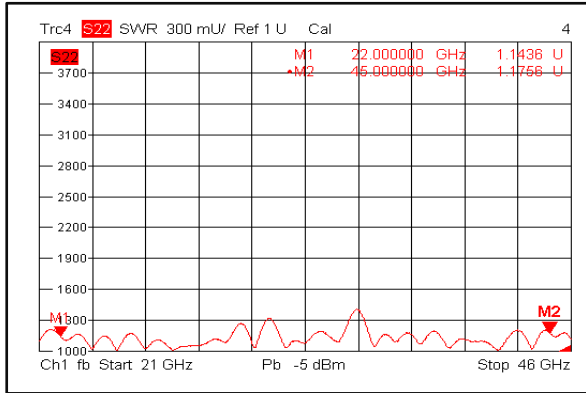
**Loss & Amplitude Imbalance**



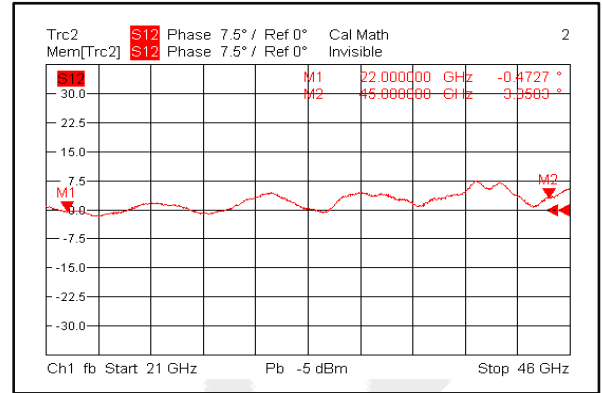
**Input VSWR**



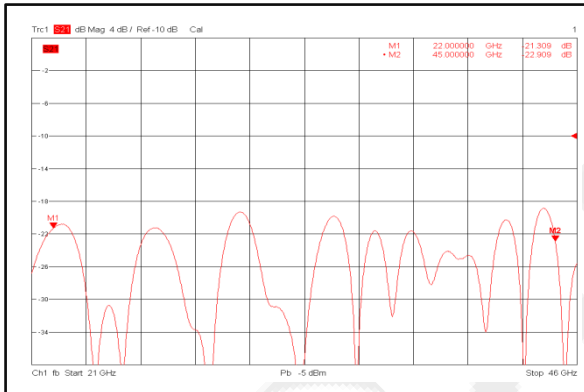
### Output VSWR



### Phase Imbalance



### Isolation



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