

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
A	PRODUCTION		

COAXIAL 30W 0.5-18GHZ 0° 8-WAY POWER DIVIDER

UCL-8PD0518A-30S SPECIFICATIONS

ELECTRICAL

Parameters		Min.	Typ.	Max.	Units
Frequency Range		0.5		18	GHz
Nominal Splitter Loss			9		dB
Insertion Loss			4.6	6.0	dB
Isolation		13	16		dB
Input VSWR	@0.5-0.55GHz		2.15	2.25	: 1
	@0.55-18GHz		1.7	2.0	
Output VSWR			1.4	1.7	: 1
Amplitude Imbalance			±0.55	±0.8	dB
Phase Imbalance			±6	±12	deg
Power Rating	Forward Power		30		W
	Reverse Power		2		W
	Peak Power		300		W
Impedance			50		Ohms
Weight			25 Max.		ounces
Input / Output Connectors		SMA-female(with non- flanged)			
Material		Aluminum			
Finish		Gray paint			

Environmental Specifications

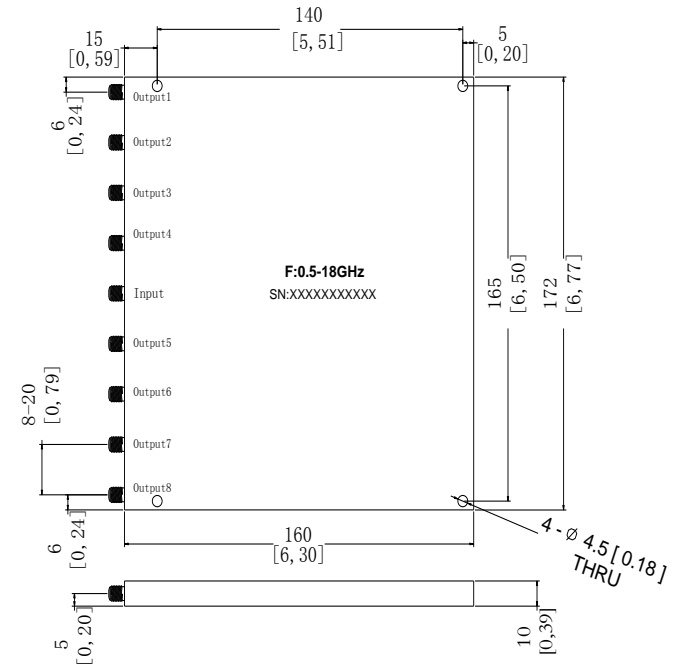
Operational Temperature	-40°C--+85°C
Storage Temperature	-50°C--+105°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH 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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TITLE

COAXIAL 30W 0.5-18GHZ 0° 8-WAY POWER DIVIDER

SIZE

A

CAGE CODE

MODEL

UCL-8PD0518A-30S

REV

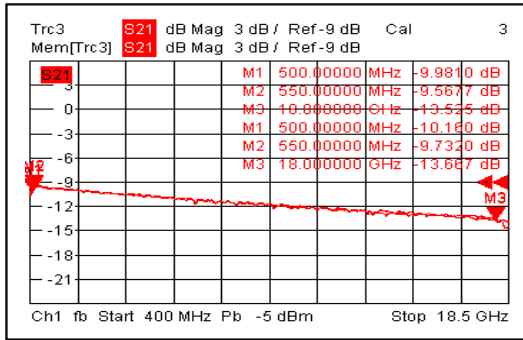
A

SCALE 1:1

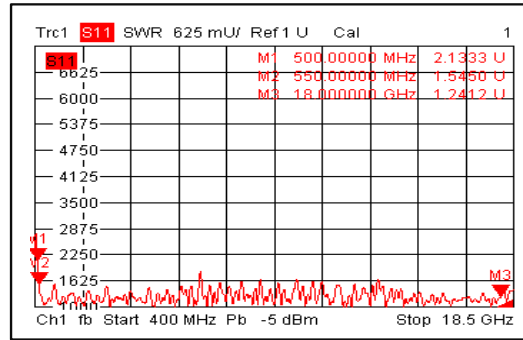
DOC FAMILY

SHEET 1 OF 2

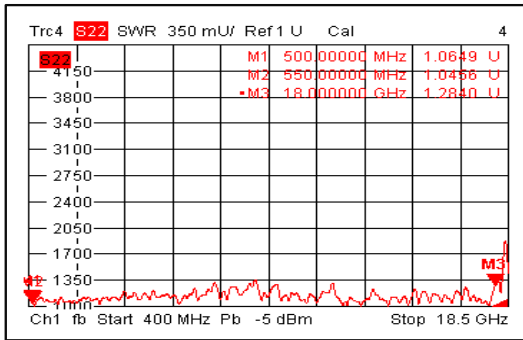
Loss & Amplitude Imbalance



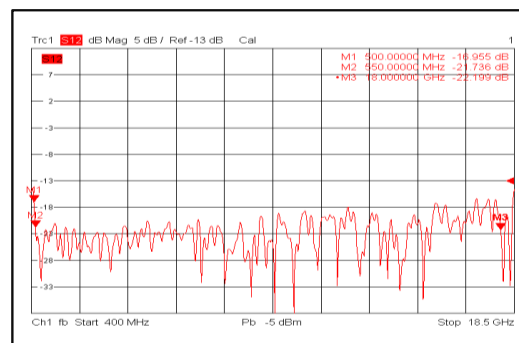
Input VSWR



Output VSWR



Isolation



Phase Imbalance

