

REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
A	PRODUCTION		

COAXIAL 30W 0.5-18GHZ 0° 4-WAY POWER DIVIDER

UCL-4PD0518A-30S  
SPECIFICATIONS

ELECTRICAL

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	0.5		1	1		8	8		18	GHz
Nominal Splitter Loss		6			6			6		dB
Insertion Loss		0.6	1.0		2.0	2.5		3.5	4.0	dB
Isolation	16	18		16	19		16	17		dB
Input VSWR		1.6	1.8		1.55	1.65		1.55	1.65	: 1
Output VSWR		1.3	1.4		1.4	1.5		1.4	1.5	: 1
Amplitude Imbalance		±0.2	±0.3		±0.3	±0.4		±0.4	±0.5	dB
Phase Imbalance		±3	±5		±3	±6		±6	±8	deg
Power Rating	Forward Power	30								W
	Reverse Power	1								W
	Peak Power	300								W
Impedance	50								Ohms	
Weight	9.8 Max.								ounces	
Input / Output Connectors	SMA-Female (Stainless Steel)									
Material	Aluminum									
Finish	Gray Paint									

Environmental Specifications

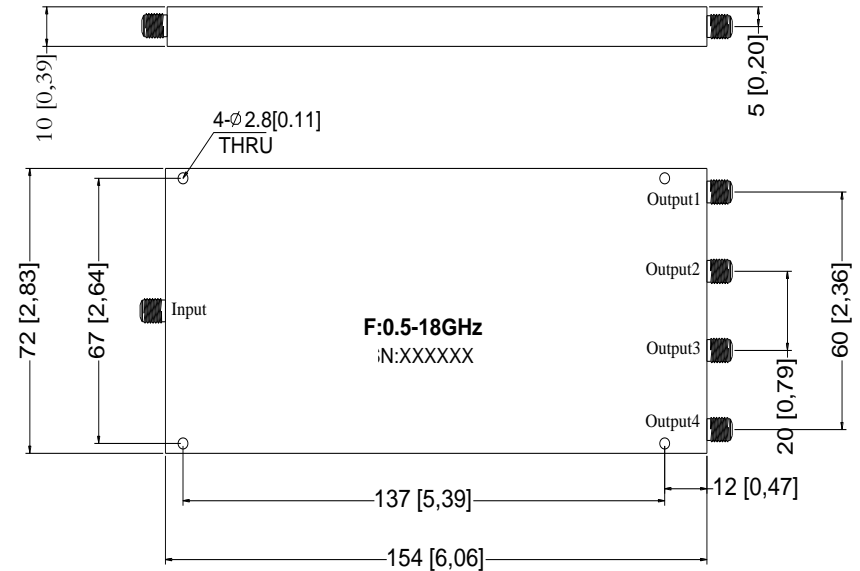
Operational Temperature	-45°C--+85°C
Storage Temperature	-55°C--+125°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment) (Optional)
Vibration	25gRMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 95%RH 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° 4-WAY POWER DIVIDER

SIZE

A

CAGE CODE

MODEL

UCL-4PD0518A-30S

REV

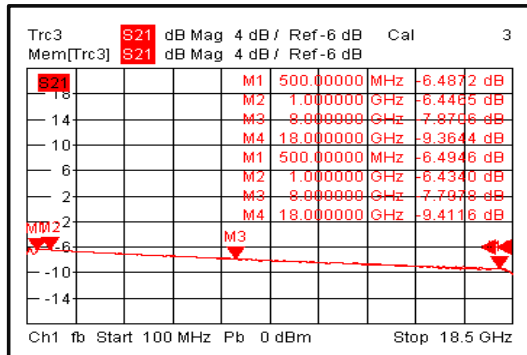
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SCALE 1:1

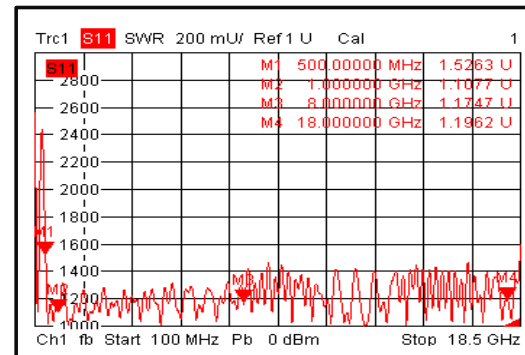
DOC FAMILY

SHEET 1 OF 2

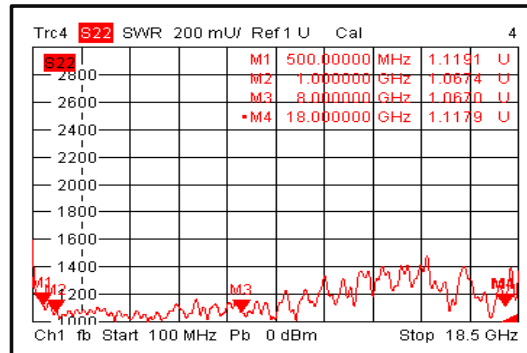
## Loss & Amplitude Imbalance



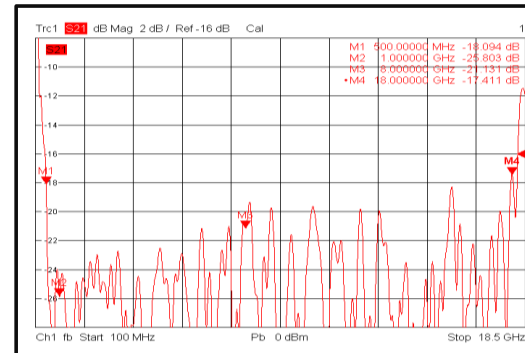
## Input VSWR



## Output VSWR



## Isolation



## Phase Imbalance

