



Coaxial Frequency Combiner 700MHz/850MHz/PCS /AWS



Features

- High Isolation
- Low Insertion Loss
- Excellent Temperature Stability
- Miniaturization
- Customization available upon request



Electrical Specifications, $T_A=25\text{ }^\circ\text{C}$

Parameters	700MHz			850MHz			PCS			AWS			Units
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	
Frequency Range	698~806			824~894			1850~2000			1710~1755 &2110~2155			MHz
Insertion Loss		0.6	0.7		0.6	0.7		0.45	0.5		0.4	0.5	dB
Pass Band Ripple		0.3	0.4		0.3	0.4		0.3	0.4		0.3	0.4	dB
Return loss	18	19		18	19		18	19		18	20		dB
Port Isolation	45			45			45			45			dB
Each port input Power	20											Watts	
Impedance	50											Ohms	
Weight	49.74											oz	
Input / Output Connectors	N - Female												
Material	Aluminum												
Finishing	Black Paint												

Environmental Specifications

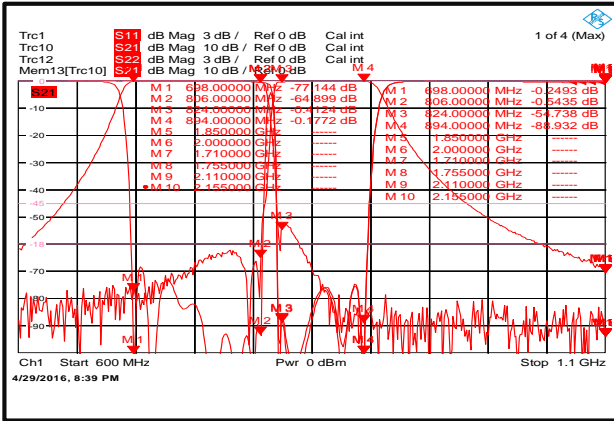
Operational Temperature ($^\circ\text{C}$)	-25 to +70
Storage Temperature ($^\circ\text{C}$)	-40 to +85
Altitude	30,000 ft. (Controlled environment) 60,000 ft. 1.0psi min (Hermetically Sealed Un-controlled environment)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msec half sine wave, 3 axis both directions



Typical Performance Plots

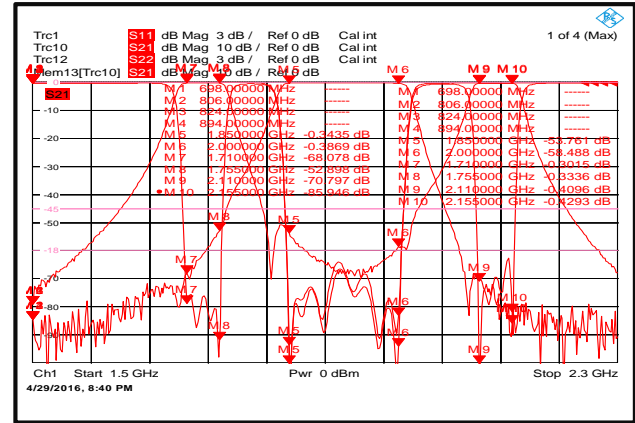
700MHz/850MHz

VSWR. Loss. Ripple. Isolation



PCS /AWS

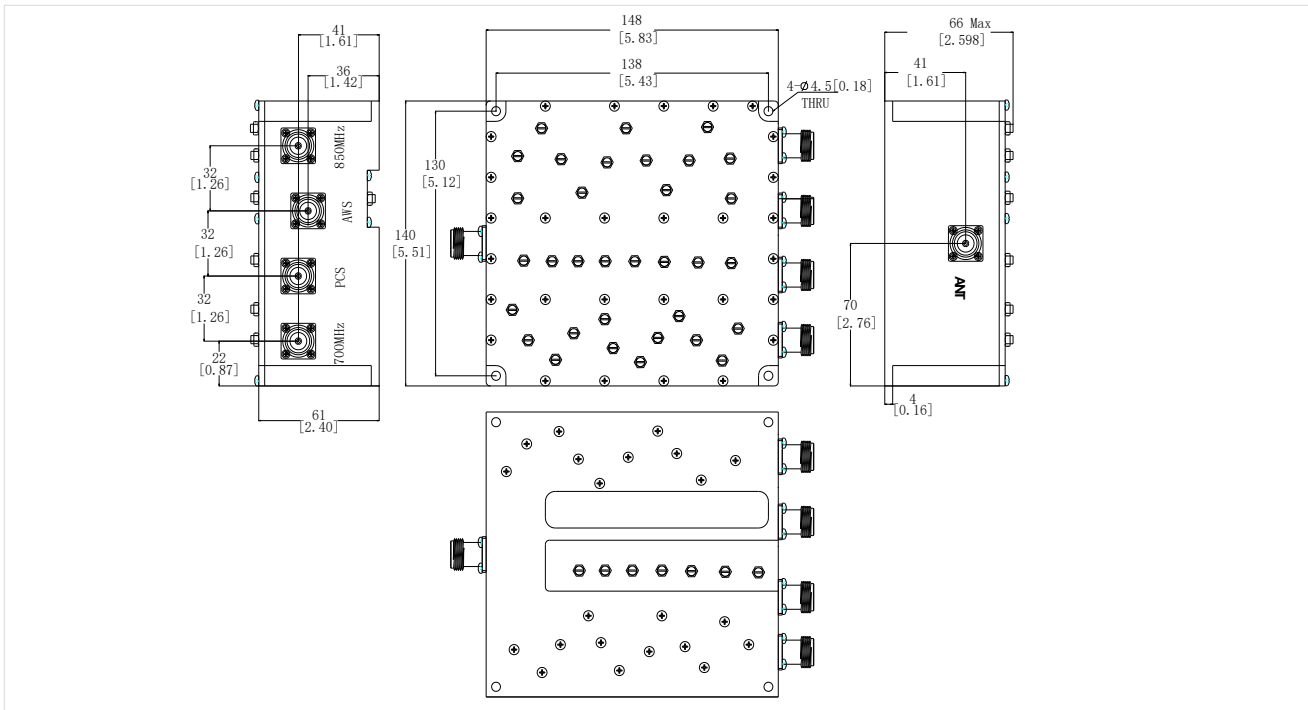
VSWR. Loss. Ripple. Isolation



Outline Drawing:

All Dimensions in mm [inches]

Tolerance ± 0.3 [0.012]



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