



### Multiple 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
Input Power (Per Port)	20											Watts	
Impedance	50											Ohms	
Weight	49.74											ounces	
Input / Output Connectors	N-Female												
Material	Aluminum												
Finish	Black Paint												

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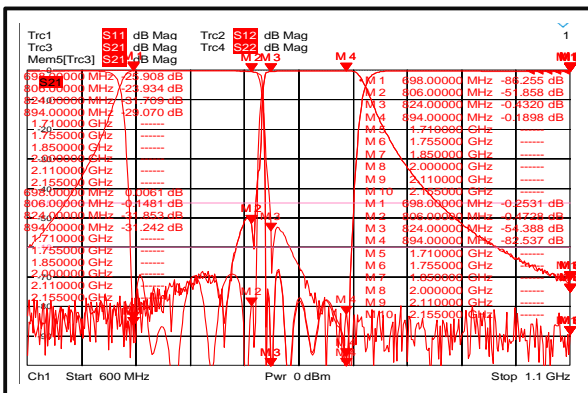
**Environmental Specifications and Test Standards**

Parameter	Standard	Description
Operational Temperature	MIL-STD-39016	-40°C~+85°C
Storage Temperature		-55°C~+125°C
Thermal Shock		1 Hour@ -45°C → 1 Hour @ +85°C (5 Cycles)
Random Vibration		Acceleration Spectral Density 6 (m/s) Total 92.6 RMS
Electrical & Temperature Burn In		Temperature +85°C for 72 Hours
Shock		1. Weight >20g, 50g half sine wave for 11ms, Speed variation 3.44m/s 2. Weight <=20g, 100g Half sine wave for 6ms, Speed variation 3.75m/s 3. Total 18 times (6 directions, 3 repetitions per direction).
Altitude		Standard: 30,000 Ft (Epoxy Sealed Controlled Environment) Optional: Hermetically Sealed (60,000 ft. 1.0 PSI min)
Hermetically Sealed (Optional)	MIL-STD-883	MIL-STD-883 (For Hermetically Sealed Units)

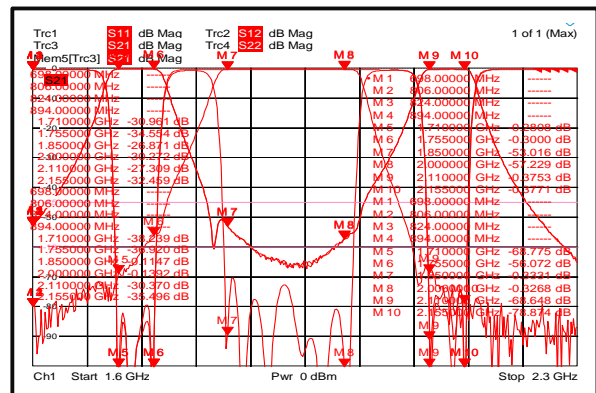
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**Typical Performance Plots**

**700MHz/850MHz VS. VSWR. Loss. Ripple. Isolation**



**PCS /AWS VS. VSWR. Loss. Ripple. Isolation**

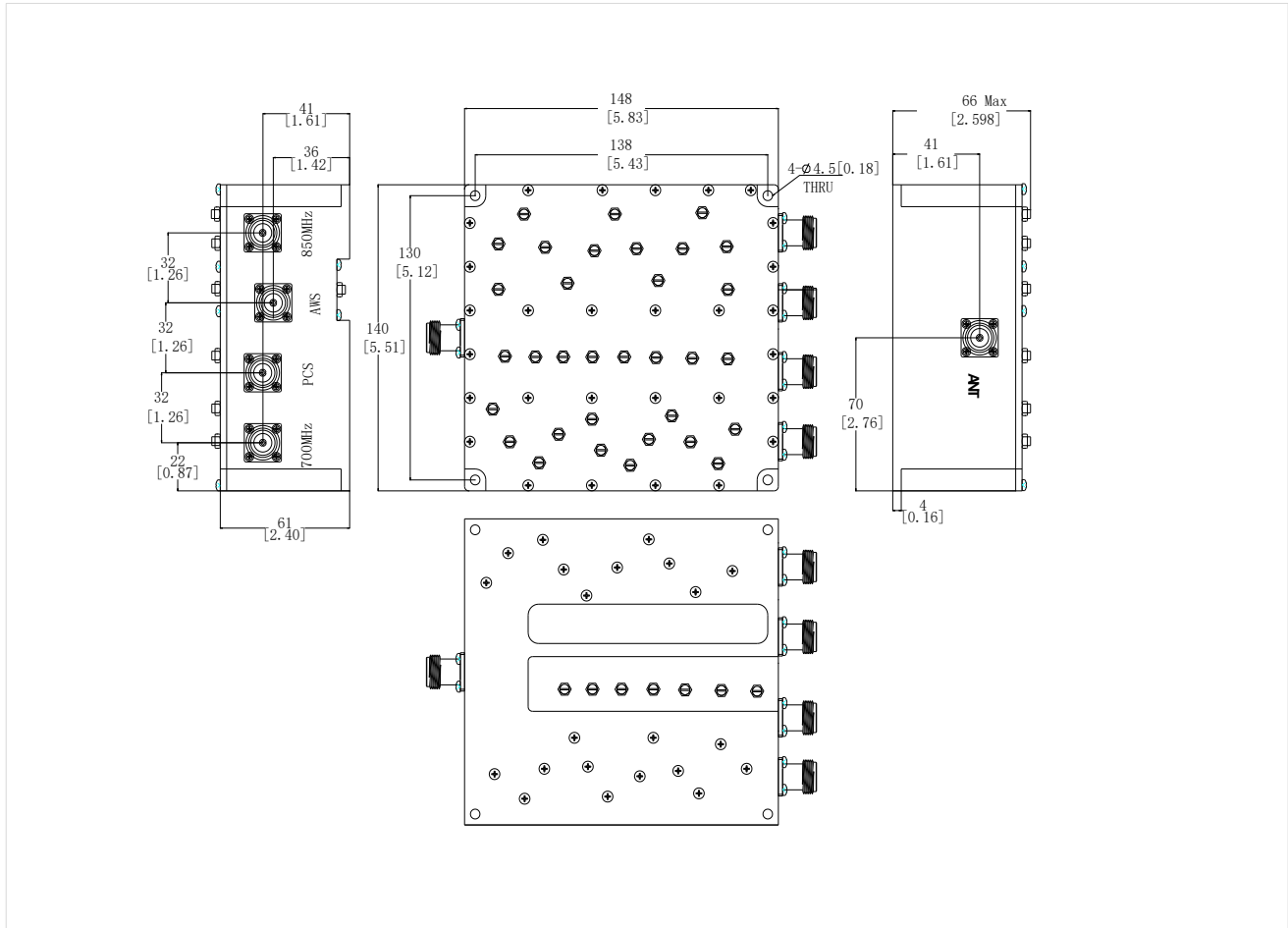




**Outline Drawing:**

All Dimensions in mm[inches]

Tolerance  $\pm 0.3$  [0.012]



**Important Notice**

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