



# RF-LAMBDA

The power beyond expectations

## RFMU700M2100B

### 700MHz/800MHz/1900MHz / 2100MHz Multiple Frequency Combiner



#### Features

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

#### Electrical Specifications

| Parameters               | 700MHz      |      |      | 800MHz               |      |      | 1900MHz   |      |      | 2100MHz                  |      |      | Units |
|--------------------------|-------------|------|------|----------------------|------|------|-----------|------|------|--------------------------|------|------|-------|
|                          | Min.        | Typ. | Max. | Min.                 | Typ. | Max. | Min.      | Typ. | Max. | Min.                     | Typ. | Max. |       |
| Frequency Range          | 698~787     |      |      | 806~824<br>& 851~869 |      |      | 1850~1990 |      |      | 1710~1755<br>& 2110~2155 |      |      | MHz   |
| Insertion Loss           |             | 0.55 | 0.7  |                      | 0.55 | 0.7  |           | 0.45 | 0.5  |                          | 0.45 | 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   |      |       |
| Port Isolation           | 45          |      |      | 45                   |      |      | 45        |      |      | 45                       |      |      | dB    |
| Each port input Power    | 20          |      |      |                      |      |      |           |      |      |                          |      |      | Watts |
| Operating Temperature    | -25 to +70  |      |      |                      |      |      |           |      |      |                          |      |      | °C    |
| Impedance                | 50          |      |      |                      |      |      |           |      |      |                          |      |      | Ohms  |
| Weight                   | 1.9         |      |      |                      |      |      |           |      |      |                          |      |      | Kg    |
| Input / Output Connector | N-Female    |      |      |                      |      |      |           |      |      |                          |      |      |       |
| Material                 | Aluminum    |      |      |                      |      |      |           |      |      |                          |      |      |       |
| Finishing                | Black Paint |      |      |                      |      |      |           |      |      |                          |      |      |       |

#### Environment Specifications

|                              |                                                                                                          |
|------------------------------|----------------------------------------------------------------------------------------------------------|
| Operational Temperature (C°) | -25 to +70                                                                                               |
| Storage Temperature (C°)     | -40 to +85                                                                                               |
| Altitude                     | 30,000 ft (Controlled environment)<br>60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) |
| Vibration                    | 25g rms (15 degree 2KHz) endurance, 1 hour per axis                                                      |
| Humidity                     | 100% RH at 35c, 95%RH at 40 deg c                                                                        |
| Shock                        | 20G for 11msc half sin wave, 3 axis both directions                                                      |

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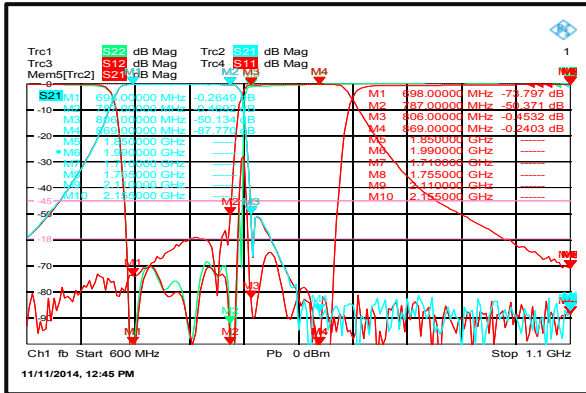
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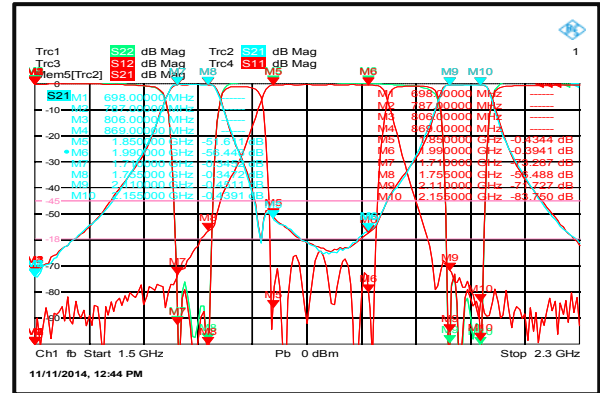
## RFMU700M2100B

### Typical Performance Plots

700MHz/800MHz VS.  
Loss. Return loss. Ripple. Isolation



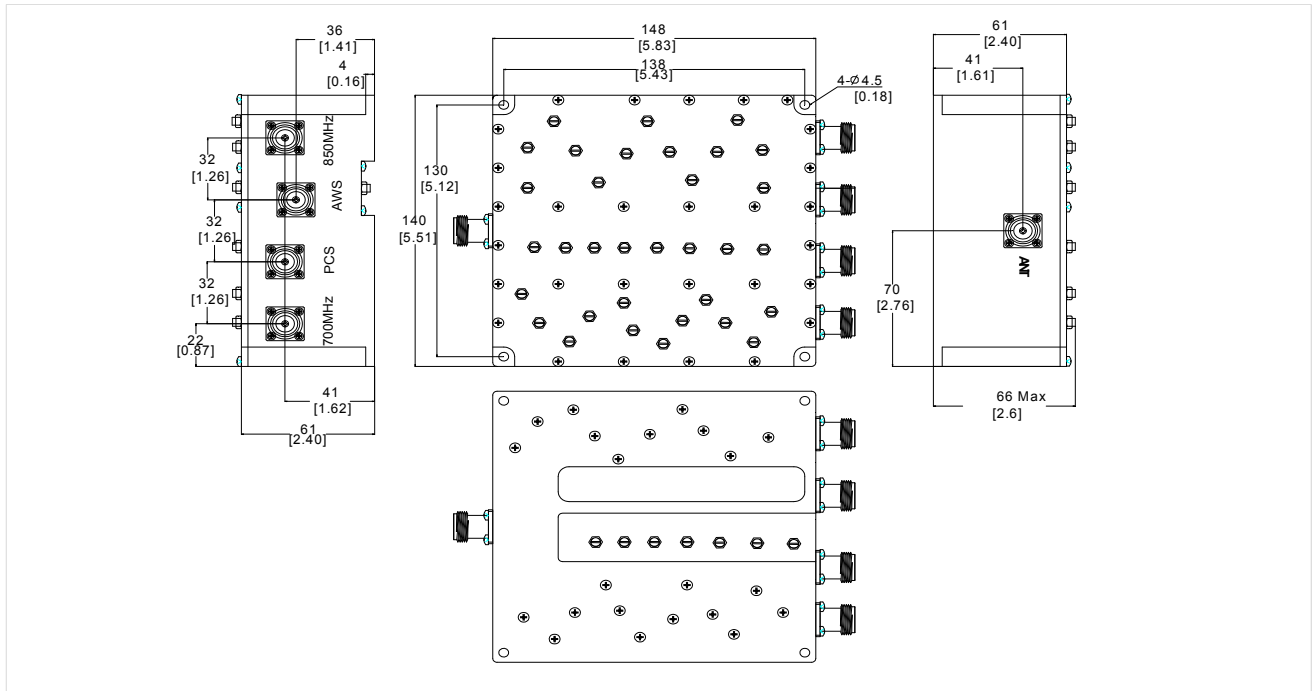
1900MHz/2100MHz VS.  
Loss. Return loss. Ripple. Isolation



### Outline Drawing:

All Dimensions in mm ( inches )

Tolerance  $\pm 0.3$  ( 0.012 )



### Important Notice

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