

#### Twin In-Band Diplexer 850A , DC/AISG on LTE, 4.3-10 connectors

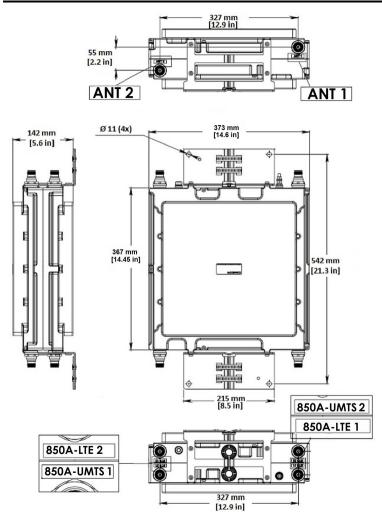
- Enables LTE carrier to share the RF path with other UMTS services
- Optimized for 5 MHz LTE carrier on A-Block
- LTE port supports 850MHz EARFCN 2475 through 2477
- UMTS port supports 850MHz UARFCN 4357
- Narrow guard band to maximize utilization of licensed spectrum
- DC/ASIG pass on LTE port

Product Classification	
Product Type	Diplexer
Dimensions	
Height	367 mm   14.449 in
Width	373 mm   14.685 in
Depth	142 mm   5.591 in
Ground Screw Diameter	6 mm   0.236 in

### Outline Drawing

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### **Electrical Specifications**

5th Order IMD Test Method	Two +43 dBm carriers
5th Order IMD, maximum	-155 dBc
License Band	CEL 850
Lightning Surge Current	10 kA
Lightning Surge Current Waveform	8/20 waveform

### Electrical Specifications, Rx (Uplink)

Frequency Band	829.25 - 833.95 MHz
Insertion Loss, maximum	1.8 dB
Return Loss, minimum	18 dB
Isolation, minimum	27 dB

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Port Designation	850A-LTE	
Total Group Delay, maximum	380 ns	
Electrical Specifications 2, Rx (Uplink)		
Frequency Band	824.25 - 828.42 MHz	
Isolation, minimum	27 dB	
Port Designation	850A-UMTS	
Total Group Delay, maximum	380 ns	
Insertion Loss, maximum	1.8 dB	
Return Loss, minimum	18 dB	
Electrical Specifications, Tx (Downlink)		
Frequency Band	874.25 - 878.95 MHz	
Isolation, minimum	27 dB	
Input Power, PEP, maximum	120 W	
Input Power, RMS, maximum	750 W	
Total Group Delay, maximum	380 ns	
Insertion Loss, maximum	1.8 dB	
Return Loss, minimum	18 dB	
Electrical Specifications 2, Tx (Downlink)		
Frequency Band	869.25 - 873.42 MHz	

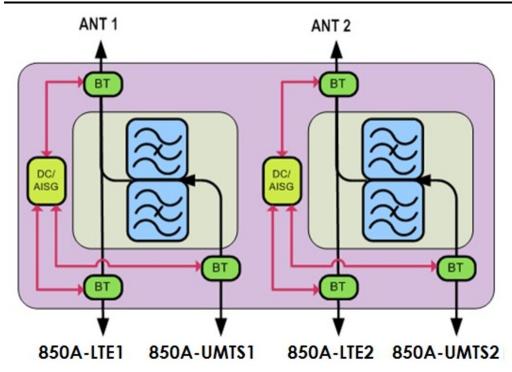
Frequency Band	869.25 - 873.42 MHz
Input Power, PEP, maximum	120 W
Input Power, RMS, maximum	750 W
Insertion Loss, maximum	1.8 dB
Isolation, minimum	27 dB
Return Loss, minimum	18 dB
Total Group Delay, maximum	380 ns

### Block Diagram

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### **Environmental Specifications**

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Ingress Protection Test Method	IEC 60529:2001, IP67
Packaging and Weights	

#### Weight, net

17.6 kg | 38.801 lb



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