

# Product Specification



## CCDP-665-XDW-N2

### 600-700 / 850 Band Diplexer

- **Covers 555-787 & 824-894 MHz**
- **Fully Weatherized**
- **Low Loss / High Isolation**
- **DC / ASIG Auto Sense**
- **Single or Dual Units Available**

Electrical Specifications				
Band 1 - 600-700			note	
Passband	MHz	Min		555-787
Insertion Loss	dB	Max		0.35
Return Loss	dB	Min		22
Isolation to Band 2	dB	Min		60
Average input power	W	Max		250
Input Peak Envelope Power	W	Max		3000
Band 2 - 850				
Passband	MHz	Min		824-894
Insertion Loss	dB	Max		0.3
Return Loss	dB	Min		22
Isolation to Band 1	dB	Min		60
Average input power	W	Max		250
Input Peak Envelope Power	W	Max		3000
Intermod Products at all Ports with two +43dBm tones	dBc	Max		-156

Environmental Specifications				
Environmental rating				ETSI EN 300 019 class 4.1, RoHS
Ingress protection				IP67
Temperature range	°C			-40 to +65
Temperature range	°F			-40 to +149
Wind force @ 200 km/h (125 mph) front/side	lbf			12.9/7
Lightning protection all ports				RF port: ±10kA max (8/20us), IEC 61000-4-5
Altitude				3,000m max   10,000ft max
Mean Time Between Failures (MTBF)	Hrs	Min		>10^6



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## Electronic Specifications

### DC Sense and Routing Specifications

Input voltage	DCV		8 to 35
DC current rating	amps	Max	1.5, current limited
Compatibility AISG			1.1 / 2.0
<b>Combiner Function</b>			
DC on high band or low band port			DC-AISG connected to COM
DC on both ports			DC-AISG connected from high band to COM
<b>Splitter Function</b>			
DC on COM detected			DC-AISG routed to port with AISG device
Port priority for multiple devices			600-700

## Mechanical Specifications

Connectors RF	4.3-10 (F)
Ground stud	M6 x 1 (hex nut included)
Connectors Quantity	3
Dimensions excluding brackets & connectors L x W x H mm (in.)	172 x 158 x 86 (6.77 x 6.22 x 3.39)
Weight, KG, (lbs)	2.9 (6.4)
Mounting	Pole/wall bracket supplied including two metal clamps for 45-178 mm diameter poles

