



**FDDPAW3040S2-3C**

ShareLite™ 1850-1915/1930-1995 and 1695-1780/2110-2360 Diplexer with DC Pass on Port 2, Single, 2.2-5 Connectors

The ShareLite FDDPAW family of diplexers enable feeder sharing between systems in the 1850-1915/1930-1995 MHz PCS spectrum for Path 1 and 1695-1780/2110-2360 MHz AWS/WCS spectrum for Path 2. The innovative design delivers very low insertion loss in an extremely small and lightweight envelope. Selective filters guarantee 30 dB of isolation between ports for an interference free deployment in any environment. An IP67 housing design protects against the most severe outdoor installation with a vented enclosure to eliminate condensation and pressure instability. The result is a long lasting solution with exceptional reliability.



**FEATURES / BENEFITS**

- Exceptionally compact design, very small footprint
- 2.2-5 Connectors - smaller and lighter than standard 7/16 or 4.3-10 connectors
- Single unit
- Extremely low insertion loss
- High power handling capability
- Superb environmental protection (IP-67)

**Technical features**

**GENERAL SPECIFICATIONS**

<b>Product Type</b>		Diplexer, Cross Band Combiner
<b>Application</b>		PCS, AWS-1, AWS-3,, AWS-4(U), WCS
<b>Configuration</b>		ShareLite Diplexer, side by side, outdoor/indoor

**ELECTRICAL SPECIFICATIONS**

<b>Branch</b>		1, 2	
<b>Frequency Range</b>	MHz	1850-1915 1930-1995	1695-1780 2110-2360
<b>Impedance</b>	Ohms	50, 50	
<b>Frequency Band</b>		PCS, AWS, WCS	
<b>DC Pass</b>		PCS: No, AWS/WCS: Yes	
<b>Insertion Loss</b>	dB	0.4 typ, 0.2 typ	
<b>Return Loss</b>	dB	20 Min, 20 Min	
<b>Power Handling Continuous, Max.</b>	W	160, 160	
<b>Rejection between bands</b>	dB	35, 30	
<b>3rd Order PIM</b>	dBm (dBc)	-118 (-158) @ 2 x 43, -118 (-158) @ 2 x 43	

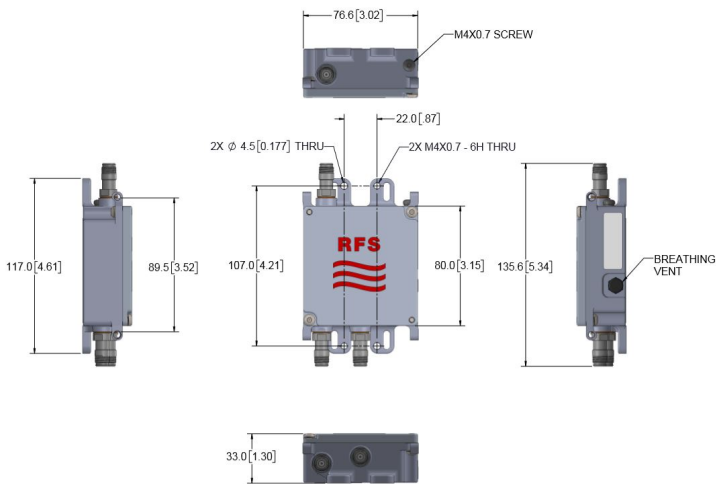
**TESTING AND ENVIRONMENTAL**

<b>Temperature Range</b>	°C (°F)	-40 to 65 (-40 to 149 )
<b>Ingress Protection</b>		IP 67
<b>Environmental</b>		ETSI 300-019 2-4 Class 4.1E
<b>Lightning Protection</b>		IEC61000-4-5 Level 4 / 5kA, 8/20 uS



**MECHANICAL SPECIFICATIONS**

<b>RF Connectors</b>		2.2-5, 2 Port In, 1 Port Out
<b>Shipping Weight</b>	kg (lb)	0.4 (0.9)
<b>Dimensions, H x W x D</b>	mm (in)	76 x 80 x 33 (3 x 3.1 x 1.3)
<b>Shipping Dimensions, H x W x D</b>	mm (in)	76 x 80 x 33 (3 x 3.1 x 1.3)
<b>Volume</b>	L	0.2
<b>Mounting</b>		Wall Mounting: with 4 screws (maximum 4 mm diameter) Pole Mounting: with included clamp set 40-100 mm (1.6-4.3 inches)
<b>Housing</b>		Aluminum



External Document Links

Notes