



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
- NEX10™ 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

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

ELECTRICAL SPECIFICATIONS

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

TESTING AND ENVIRONMENTAL

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

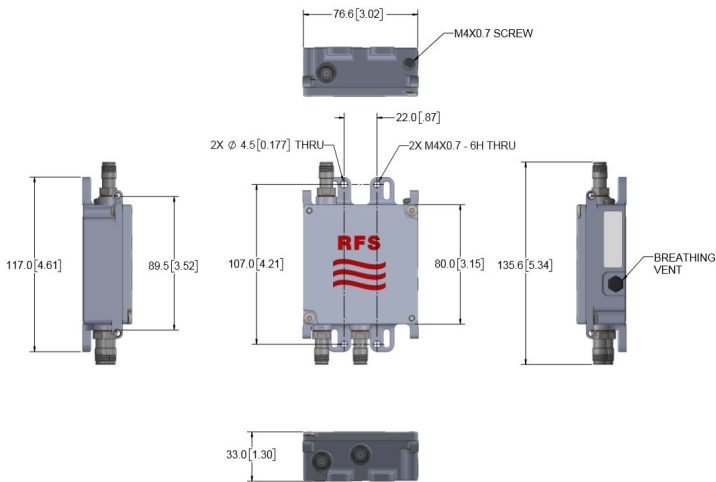


FDPAW3040S0-3C

ShareLite™ 1850-1915/1930-1995 and 1695-1780/2110-2360 Diplexer with DC Pass on Port 2, Single, NEX10™ Connectors

MECHANICAL SPECIFICATIONS

RF Connectors		NEX10, 2 Port In, 1 Port Out
Weight	kg (lb)	0.4 (0.9)
Shipping Weight	kg (lb)	0.4 (0.9)
Dimensions, H x W x D	mm (in)	76 x 80 x 33 (3 x 3.1 x 1.3)
Shipping Dimensions, H x W x D	mm (in)	76 x 80 x 33 (3 x 3.1 x 1.3)
Volume	L	0.2
Mounting		Wall Mounting: with 4 screws (maximum 4 mm diameter) Pole Mounting: with included clamp set 40-100 mm (1.6-4.3 inches)
Housing		Aluminum



External Document Links

Notes