



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

The ShareLite FDPAW 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
- ➔ Dual 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	50.0	50.0
Frequency Band		PCS	AWS, WCS
DC Pass		No	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

MECHANICAL SPECIFICATIONS

RF Connectors		2.2-5 (Female), 4 Ports In, 2 Ports Out
Weight	kg (lb)	0.66 (1.45)
Dimensions, H x W x D	mm (in)	76 x 80 x 54 (3 x 3.1 x 2.1)
Volume	L	0.32
Mounting		Wall Mounting: with 4 screws (maximum 4 mm diameter) Pole Mounting: with included clamp set 40-100 mm (1.6-4.3 inches)

Document Links

Notes

External Link Reference



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