



FQBLDW5020S4-1C

ShareLite™ 380-960/1350-1525/1710-1880/1920-2170 MHz Quadplexer with Full DC/AISG pass, Single configuration, 4.3-10 Connectors

The Sharelite FQBLDW Series of quadplexers is designed to enable feeder sharing among systems in the 380-960,1350-1525,1710-1880,1920-2170 MHz ranges. RFS' innovative cavity filter design provides a very low insertion loss of 0.20dB typical while keeping the product extremely compact and lightweight. The use of highly selective filters guarantees a high isolation level of 50 dB between ports, to ensure an interference-free environment for any technology deployed. The filter design incorporates lightning protection for additional reliability. Designed to withstand the most severe outdoor environments, the quadplexer features an IP67 class protection with a vented enclosure to avoid any possible effects of pressure instability, thus providing a long lasting, extremely reliable solution to any network.



FEATURES / BENEFITS

- Single unit optimizing in-building application
- Full DC/AISG pass
- 4.3-10 Connectors - Reduce tower loading with connectors that are 40% smaller and lighter than 7-16 DIN connectors
- Extremely Low Insertion Loss
- High level of Rejection between bands - Protection against interference
- High Power Handling Capability
- Very compact & small size design - Easy installation and reduced tower load
- Exceptional reliability & environmental protection (IP-67)
- Grounding already provided through the mounting bracket

Technical features

GENERAL SPECIFICATIONS

Product Type	Quadplexer / Cross Band Combiner			
Application	Feeder sharing among systems in the 380-960,1350-1525,1710-1880,1920-2170 MHz ranges			
Configuration	Single Indoor/Outdoor			

ELECTRICAL SPECIFICATIONS

Branch		1, 2, 3, 4			
Frequency Range	MHz	380-960	1350-1525	1710-1880	1920-2170
Impedance	Ohms	50, 50, 50, 50			
Frequency Band		LTE700, LTE800, GSM900, 1500 L Band (LTE Band 32), GSM1800, LTE1800, UMTS, LTE2100			
DC Pass		Full DC pass			
Insertion Loss	dB	0.30 max. (0.15 typ.), 0.30 max. (0.15 typ.), 0.40 max. (0.20 typ.), 0.40 max. (0.20 typ.)			
Group Delay Variation	ns	5, 10, 20, 20			
GROUPDELAYNS	ns	10, 15, 30, 30			
Total Group Delay	ns	10, 15, 30, 30			
Return Loss	dB	19min. / 22 typ., 19min. / 22 typ., 19min. / 22 typ., 19min. / 22 typ.			
Isolation	dB	50			
Power Handling Continuous, Max.	W	1200W at common port, 300W in each path			
Input Power, PEP	W	3000			
3rd Order PIM	dBm (dBc)	-118 (-161) @2x43 typ.			

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 65 (-40 to 149)
Ingress Protection		IP67
Environmental		ETSI 300-019-2-4 Class 4.1E
Lightning Protection		EN/IEC 61000-4-5 Level 4 / 10KA, 8/20 us

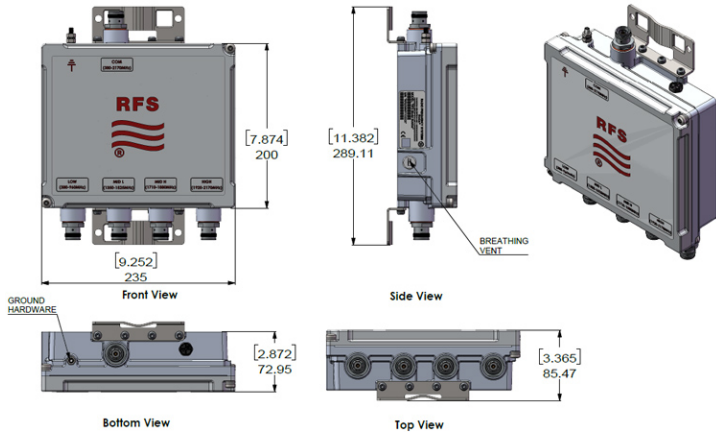


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MECHANICAL SPECIFICATIONS

RF Connectors		4.3-10 Female; 4 ports in, 1 port out
Shipping Weight	kg (lb)	4.6 (10.1)
Dimensions, H x W x D	mm (in)	200 x 235 x 73 (7.9 x 9.3x 2.8)
Shipping Dimensions, H x W x D	mm (in)	200 x 235 x 73 (7.9 x 9.3x 2.8)
Mounting		Wall mounting: with 4 screws (maximum 6mm diameter), not included Pole Mounting: with included clamp set, 38-127mm (1.5"-5.0")



External Document Links

- [Installation Instructions](#)
- [Global RFS Website](#)
- [RFS Product Finder](#)
- [RFS RF Filters Selection Guide](#)

Notes

Please refer to the latest datasheet version available in our Website