



ShareLite™ 1427-1880/1920-2170/2300-2690 MHz Triplexer, with Auto DC/AISG Sense, Dual configuration, 4.3-10 Connectors

The Sharelite FTDWM Series of triplexers are designed to enable feeder sharing between systems in the 1427-1880, 1920-2170 and 2300-2690 MHz range. RFS's innovative cavity filter design provides a very low insertion loss of 0.15-0.2dB typical while keeping the product extremely compact and lightweight. The usage of highly selective filters also guarantees a high isolation level of 50dB between ports, to ensure an interference-free environment for any technology deployed. The filter design also comprises of lightning protection for additional reliability. Designed to withstand the most severe outdoor environments, it also features an IP67 class protection with a vented enclosure to avoid any possible effects of condensation and pressure instability, thus providing a long lasting, extremely reliable solution to any network.



FEATURES / BENEFITS

- ➔ Dual unit for use with X-pol Antennas
- ➔ Auto DC sense to prevent installation mistakes and eliminate the need for DC stops
- ➔ 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
- ➔ Extremely High Power Handling Capability
- ➔ Very compact & small size design - Easy installation and reduced tower load
- ➔ Exceptional reliability & environmental protection (IP-67)
- ➔ Mounting hardware for Wall and Pole mount provided (P/N SEM2-1A)
- ➔ Grounding already provided through the mounting bracket

Technical Features

GENERAL SPECIFICATIONS

Product Type	Triplexer/Cross Band Combiner		
Application	1500 L Band (LTE Band 32), GSM1800, LTE1800, UMTS, LTE2100, LTE2300, LTE2600		
Configuration	Dual indoor/outdoor		

ELECTRICAL SPECIFICATIONS

Branch		1	2	3
Frequency Range	MHz	1427-1880	1920-2170	2300-2690
Impedance	Ohms	50.0	50.0	50.0
Frequency Band		1500 L Band (LTE Band 32), GSM1800, LTE1800,	UMTS, LTE2100,	LTE2300, LTE2600
DC Pass			Auto DC Sense	
Insertion Loss	dB	0.15 typ. / 0.4 max.	0.2 typ. / 0.4 max.	0.2 typ. / 0.3 max.
Group delay	ns	22 max.	8 max.	10 max.
Return Loss	dB	20 min / 22 typ.	20 min / 22 typ.	20 min / 22 typ.
Power Handling Continuous, Max.	W	900 at common port, 300 in each path		
Input Power, PEP	W	3000		
Rejection between bands	dB	50		
PIM at Common Port	dBm (dBc)	-118 (-161) @2x43 typ.		

TESTING AND ENVIRONMENTAL

Temperature Range	°C (°F)	-40 to 65 (-40 to 149)
Ingress Protection		IP 67
Environmental		ETSI 300 019 1-4 Class 4.1E
Lightning Protection		IEC61000-4-5 Level 4

MECHANICAL SPECIFICATIONS

RF Connectors		4.3-10 Female; 6 ports in, 2 ports out
Weight	kg (lb)	4.7 (10.35)
Shipping Weight	kg (lb)	6 (13.2)
Dimensions, H x W x D	mm (in)	174 x 192 x 152 (6.9 x 7.6 x 6)
Shipping Dimensions, H x W x D	mm (in)	350 x 270 x 250 (13.8 x 10.6 x 9.8)
Mounting		Wall Mounting: With 4 screws (maximum 6mm diameter) Pole Mounting: With included clamp set 40-110mm (1.57-4.33")

Document Links

Notes

External Link Reference



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FTDWM5015D4 AUTO DC SENSE PRIORITY:

Type	Model Number	1427-1880 MHz Path	1920-2170 Path	2300 - 2700 Path
Dual	FTDWM5015D4-S1	Auto DC Sense Priority 2	Auto DC Sense Priority 1	Auto DC Sense Priority 3

