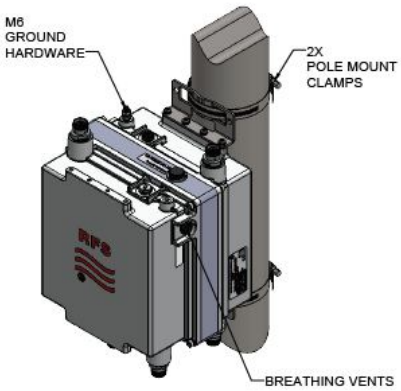
PRODUCT DATASHEET

FTEGL5020D4-S1

RADIO FREQUENCY SYSTEMS
The Clear Choice®

ShareLite™ 698-862/880-960/1427-2690 MHz Triplexer, with Auto DC/AISG Sense, Dual configuration, 4.3-10 Connectors

The Sharelite FTEGL Series of triplexers are designed to enable feeder sharing between systems in the 698-862, 880-960 and 1427-2690 MHz range. RFS's innovative cavity filter design provides a very low insertion loss of 0.1dB 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		
Application		LTE700, LTE800, GSM900, L Band, GSM1800, LTE1800, UMTS, LTE2100, LTE2300, LTE2600		
Configuration		Dual indoor/outdoor		
ELECTRICAL SPECIFICATIONS				
Branch		1	2	3
Frequency Range	MHz	698-862	880-960	1427-2690
Impedance	Ohms	50.0	50.0	50.0
Frequency Band		LTE700, LTE800	GSM900	L Band, GSM1800, LTE1800, UMTS, LTE2100, LTE2300, LTE2600
DC Pass		Auto DC Sense		
Insertion Loss	dB	0.1 typ. / 0.4 max	0.1 typ. / 0.4 max	0.08 typ. / 0.15 max
Group delay	ns	30	40	6
Return Loss	dB	22 typ.	22 typ.	22 typ.
Power Handling Continuous, Max.	W	900 at common port, 300 on 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)	11.5 (25.4)		
Dimensions, H x W x D	mm (in)	249 x 228 x 188 (9.8 x 9 x 7.4)		
Mounting		Wall Mounting: With 4 screws (maximum 6mm diameter) Pole Mounting: With included clamp set 38-127mm (1.5-5.0")		

Document Links

Notes

External Link Reference

All information contained in the present datasheet is subject to confirmation at time of ordering

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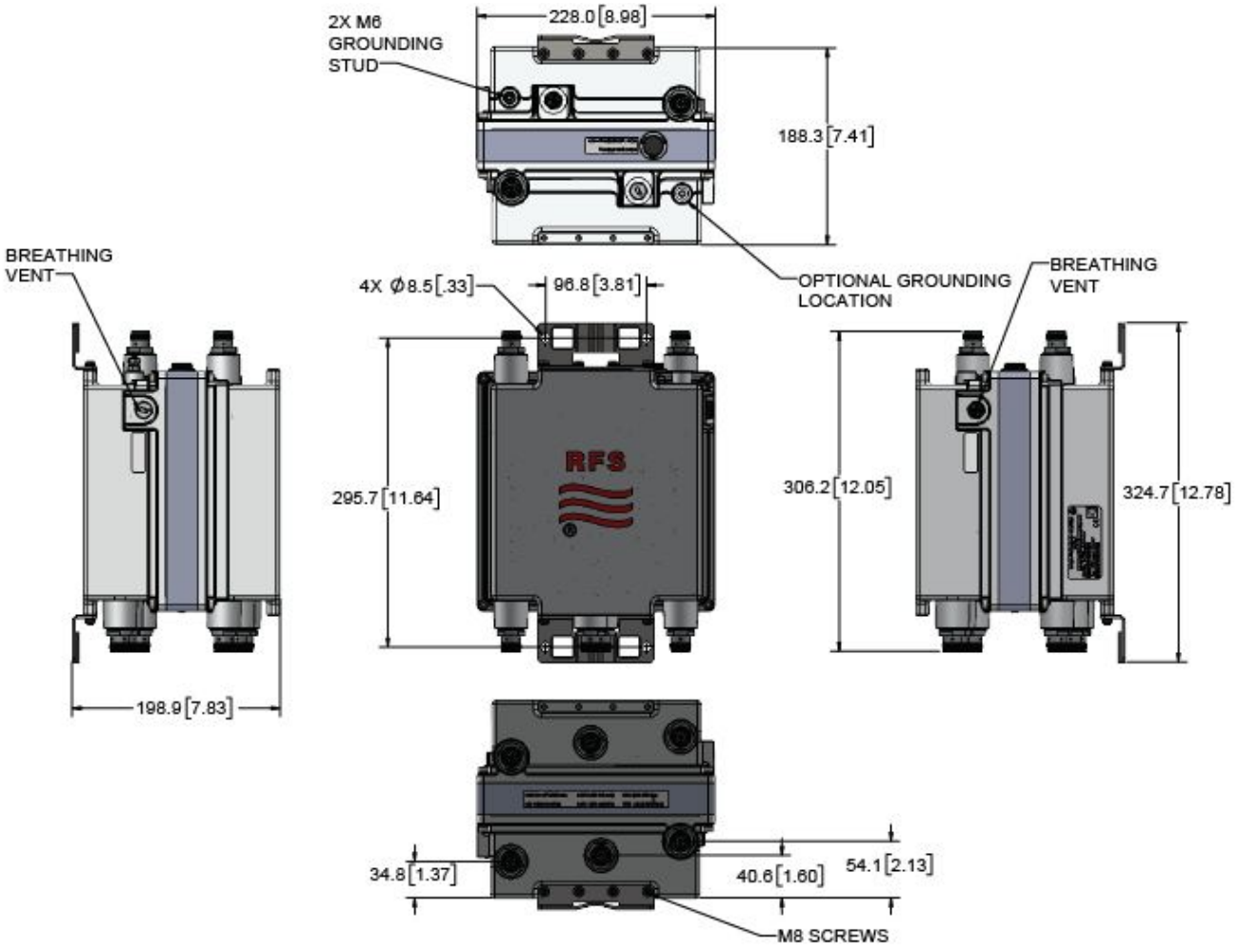
FTEGL5020D4 AUTO DC SENSE PRIORITY:

Type	Model Number	698-862 MHz Path	880-960 MHz Path	1427-2690 MHz Path
Dual	FTEGL5020D4-S1	Auto DC Sense Priority 2	Auto DC Sense Priority 3	Auto DC Sense Priority 1



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