



The Sharelite FTBDV Series of triplexers are designed to enable feeder sharing between systems in the 380-960, 1427-1880 and 1920-2690 MHz range. RFS's innovative cavity filter design provides a very low insertion loss of 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

- Single unit optimizing small cell and in-building solutions
- Full DC 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
- 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	380-960	1427-1880	1920-2690
Impedance	Ohms	50, 50, 50		
Frequency Band		LTE700, LTE800, GSM900, L Band, GSM1800, LTE1800, UMTS, LTE2100, LTE2300, LTE2600		
DC Pass		Full DC pass		
Insertion Loss	dB	0.15 typ. / 0.3 max, 0.2 typ. / 0.4 max, 0.2 typ. / 0.4 max		
GROUPDELAYNS	ns	6, 25, 30		
Total Group Delay	ns	6, 25, 30		
Return Loss	dB	22 typ. , 22 typ. , 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		
3rd Order PIM	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; 3 ports in, 1 port out
Shipping Weight	kg (lb)	3.4 (7.4)
Dimensions, H x W x D	mm (in)	200 x 200 x 70 (7.9 x 7.9 x 2.8)
Shipping Dimensions, H x W x D	mm (in)	200 x 200 x 70 (7.9 x 7.9 x 2.8)
Mounting		Wall Mounting: With 4 screws (maximum 6mm diameter) Pole Mounting: With included clamp set 38-127mm (1.5-5.0")

SELECTION TABLE

Type	Model Number	No DC pass	DC pass 1920-2690	Dc pass 1427-1880	Dc pass 380-960	Full DC pass
Single	FTBDV5015S4-1C					X
Single	FTBDV5015S4-2C				X	
Single	FTBDV5015S4-3C			X		
Single	FTBDV5015S4-4C		X			
Single	FTBDV5015S4-NC	X				

External Document Links

Notes