

DDF0019F2V2-1

TWIN DUAL DUPLEXED FILTER 850

Designed as an 850MHz Transmit filter the DDF0019 is used to attenuate spurious emitting from a 850MHz Base Station over and adjacent 900MHz RX carriers.



FEATURES

- For use in 850MHz applications with 900MHz co-location
- Low downlink insertion loss while attenuating spurious outside the 850MHz transmit spectrum
- DC pass configured for use with Tower Mounted amplifiers
- Economical twin filter solution
- Suitable for retuning to bandwidths of 10-18MHz with guard bands >4MHz

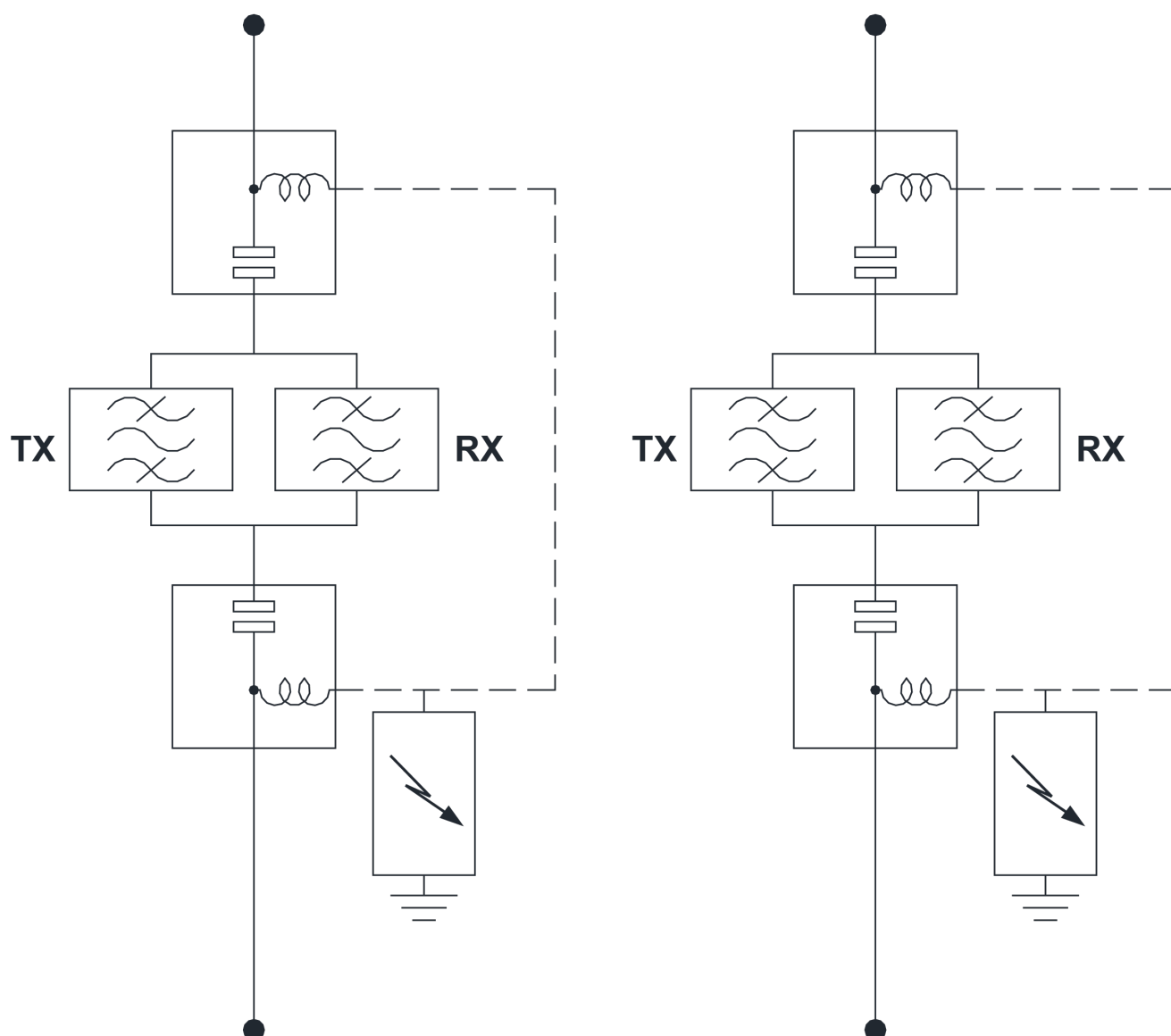
TECHNICAL SPECIFICATIONS

BAND NAME	DOWNLINK (TX) PATH	UPLINK (RX) PATH
RF PERFORMANCE		
Passband	870 - 885MHz	825 - 840MHz
Insertion loss	1.05dB maximum	0.5dB maximum
Return loss	18dB minimum	
Rejection	45dB minimum @ 890 - 915MHz	
ELECTRICAL		
Impedance	50ohms	
Intermodulation products	-160 dBc max (2x 20 W carriers, in receive band)	
Maximum input power	100W (average) / 800W (PEP)	
DC / AISG		
Passband	0 - 3MHz	
Insertion loss	1dB maximum	
Return loss	12dB minimum	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C 4°F to +140°F	
Ingress protection	IP67 (outdoors)	
Altitude	2,600m 8,530ft maximum	
Lightning protection	IEC61312-1 8/20us, 5kA max DC grounded, all ports	
MTBF	>1,000,000 hours	
MECHANICAL		
Dimensions H x D x W	239 x 217 x 88mm 9.40 x 8.54 x 3.46in	
Weight	7kg 15.4lbs	
Finish	Painted light grey	
Connectors	DIN 7-16 (F) x 4	
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles	

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
X denotes different frequency tuning and DC pass options, contact Kaelus for details	
DDF0019F2V2-1	TWIN DUAL DUPLEXED FILTER 825-840/870-885 REJ 45 @ 890, DC
DDF0019FxVx-1	TWIN DUAL DUPLEXED FILTER 850

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

