

DDF0015F10V2-1

TWIN DUAL DUPLEXED FILTER E900

The DDF0015 is deployed when co-locating 900 and 850MHz systems. Attenuating the 850MHz downlink band this filter prevents the 900MHz BTS receive being overloaded from 850MHz systems.



FEATURES

- Filters unwanted carrier frequencies introduced when antennas from both 850 and 900MHz services are co-located
- Twin dual duplex structure , 16MHz bandwidth
- Excellent rejection in 850MHz band, low loss, high selectivity
- Factory tuned anywhere in extended 900MHz band if required

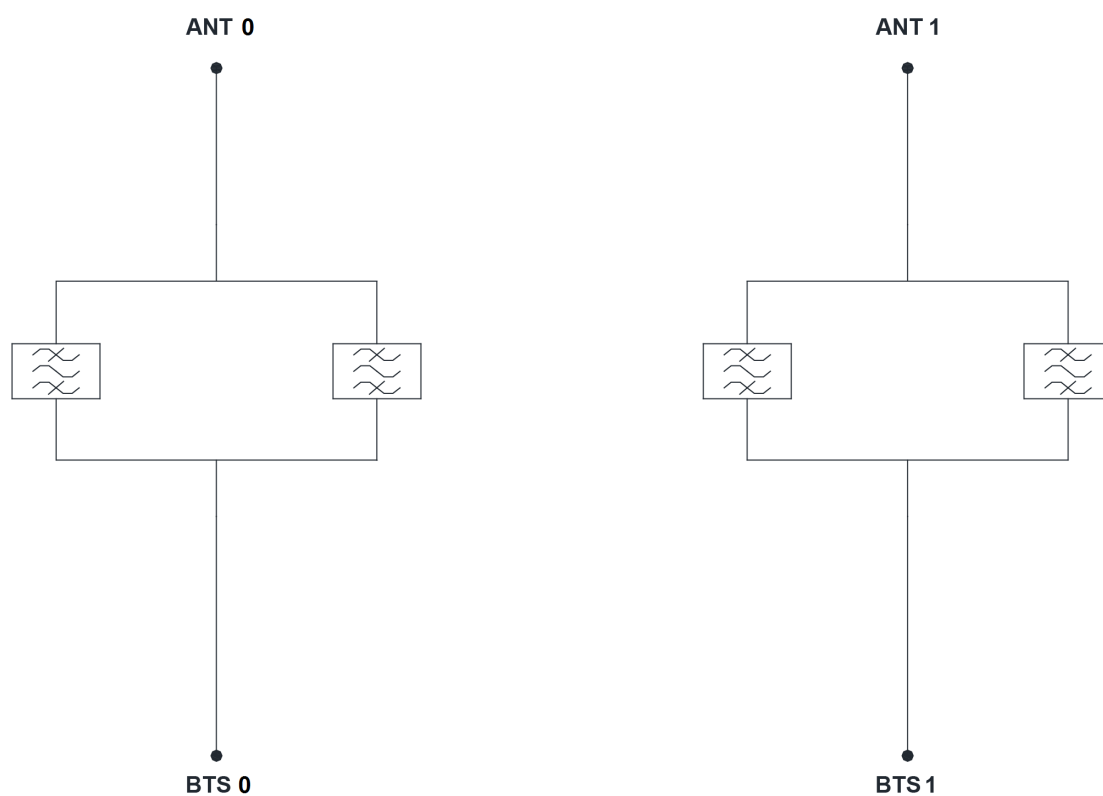
TECHNICAL SPECIFICATIONS

BAND NAME	DOWNLINK (TX) PATH	UPLINK (RX) PATH
RF PERFORMANCE		
Passband	944 - 960MHz	899 - 915MHz
Insertion loss	0.4dB typical	0.5dB typical
Return loss	20dB typical	
Passband ripple	0.3dB maximum	0.4dB typical
Rejection	50dB minimum @ 869 - 894MHz	
ELECTRICAL		
Impedance	50ohms	
Intermodulation products	-160 dBc max (2x 20 W carriers, in receive band)	
Maximum input power	150W (average) 800W (PEP)	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-30°C to +55°C -31°F to +131°F	
Ingress protection	IP67 (outdoors)	
Lightning protection	IEC61312-1 8/20us, 8kA max DC grounded, all ports	
MTBF	>1,000,000 hours	
Compliance	RoHS	
Operational humidity	5% to 95% , non condensing	
MECHANICAL		
Dimensions H x D x W	239 x 217 x 89mm 9.4 x 8.54 x 3.5in	
Weight	8kg 17.63lbs	
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
DDF0015F10V2-1	TWIN DUAL DUPLEXED FILTER 899-915/944-960 REJ 50 @894, NO DC

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

