

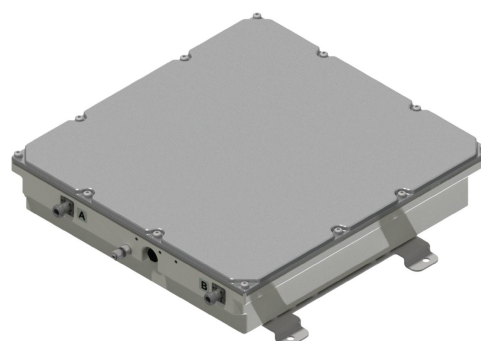
DDF9006F1V1-1

DUAL DUPLEX FILTER GSM-R 900MHZ

Dual duplex GSM-R filters are compact two port units with the ability to simultaneously pass both uplink and downlink GSM-R signals.

FEATURES

- Designed for GSM-R Cab Radio use
- Suitable for indoor applications
- Narrow guard band
- Provides high level of rejection to adjacent EGSM900 downlink



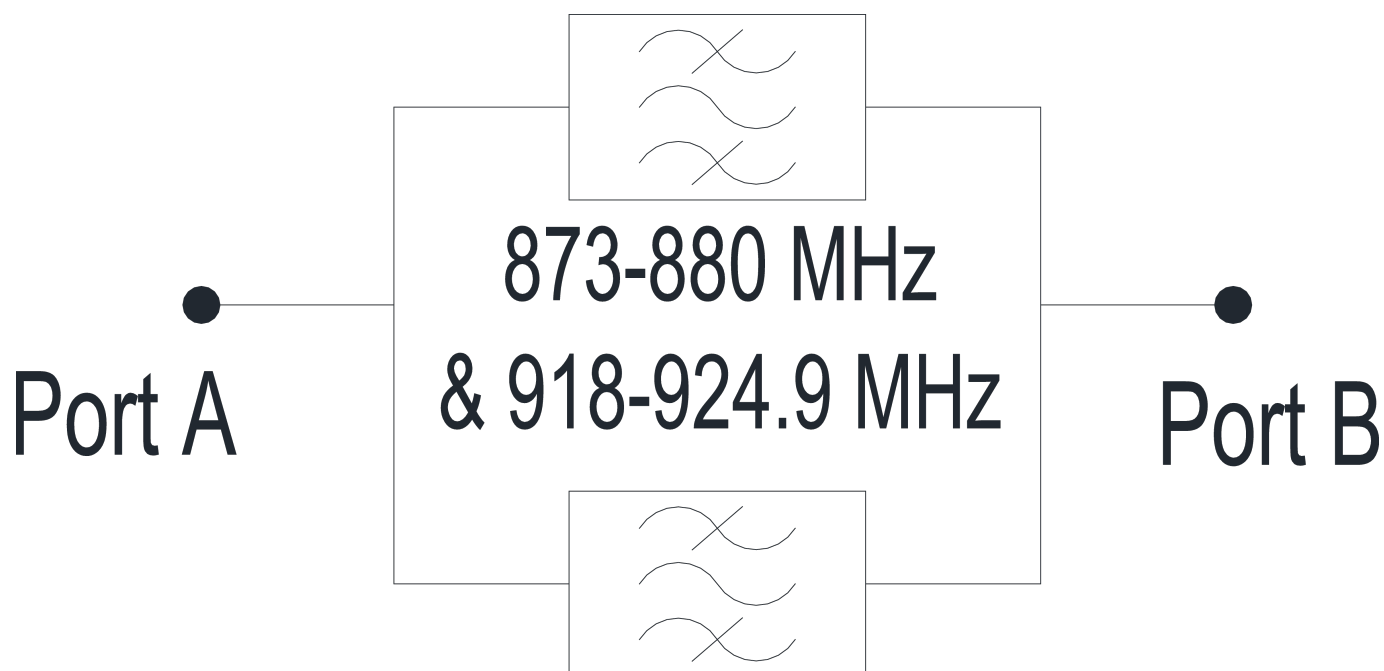
TECHNICAL SPECIFICATIONS

BAND NAME	DOWNLINK (BTS TX)	UPLINK (BTS RX)
RF PERFORMANCE		
Passband	918 - 924.9MHz	873 - 880MHz
Bandwidth	6.9MHz	7MHz
Insertion loss	918-924.8MHz- 2.0dB maximum / 1.0dB typical at mid-band 924.9MHz- 3.0dB maximum	2.0dB max at band edge, 1.0dB typ midband
Return loss	15dB minimum	15dB minimum
Maximum input power	20W maximum (average) / 200W (PEP)	NA
REJECTION CHARACTERISTIC		
925.4MHz	15dB minimum	
926 - 960MHz	30dB minimum	
ELECTRICAL		
Impedance	50ohms	
Intermodulation products	<-150dBc with 2 x 37dBm carriers, reflected mode, in RX band	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-25°C to +70°C -13°F to +158°F, EN 50155, EN 60068	
Ingress protection	IP54	
Altitude	1,000m 3,300ft max, EN 50125.1	
Compliance	EN 50155, EN 61373 Shock and Vibration EN 50155 4.1.4 Relative Humidity EN 50121-3-2 EMC Rolling Stock EN 45545 Fire Protection on Railway Vehicles ETSI 300-019-2-1 Storage and Transport Environmental RoHS	
MECHANICAL		
Dimensions H x D x W	400 x 380 x 78mm 15.75 x 14.96 x 3.07in (excluding brackets)	
Weight	17.0kg 37.48lbs	
Finish	Powder coated, light grey (RAL7035)	
Connectors	N type (F) X 2	
Mounting	Customer specific	

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DDF9006F1V1-1	Dual Duplexed Filter, GSM900
DCI9001F1V1-1	DC Injector
SWT9003F1V1-1	Switch assembly for DDF9006F1V1-1
GSR0003F1V1-1	System including DDF9006F1V1-1 and SWT9003F1V1-1

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

