

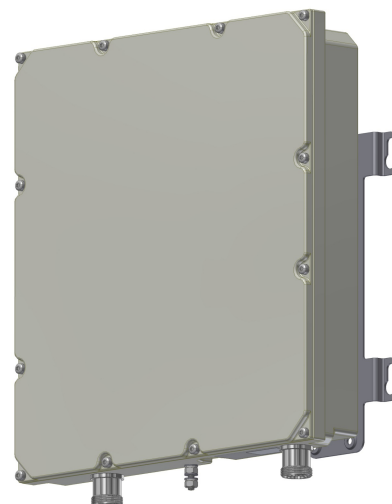
DDF9005F1V1-1

850MHZ INTERFERENCE MITIGATION FILTER

Designed for indoor distributed antenna systems the DDF9005 has been developed for co-located 850 and 900MHz systems when narrow guardbands and high rejections are needed

FEATURES

- For use in DAS systems
- 850MHz dual duplex TX interference mitigation filter
- 19.6MHz bandwidth for 4 UMTS carriers
- 80dB interference rejection



TECHNICAL SPECIFICATIONS

BAND NAME	DOWNLINK (BTS TX)	UPLINK (BTS RX)
Passband	870-889.6MHz	825-844.6MHz
Insertion loss	2.5dB maximum at band edge, 2dB typical 0.5dB typical at mid-band	1.0dB maximum at band edge, 0.85dB typical 0.5dB typical at mid band
Return loss	18dB minimum	
Group delay variation	250ns maximum / 150ns typ across 3.84MHz (CH FA01, CF = 887.2MHz) 100ns maximum / 70ns typ across 3.84MHz (CH FA02, CF = 882.2MHz) 700ns max / 580ns typ across passband	50ns maximum / 20ns typ across 3.84MHz (CH FA02) 100ns maximum / 70ns typ across 3.84MHz (CH FA01) 200ns max / 100ns typ across passband
Absolute group delay	800ns maximum / 670ns typ	500ns maximum / 200ns typ
Maximum input power	100W average, 1000W peak	
Intermodulation products	<-150dBc with 2 x 43dBm carriers, reflected mode	

ATTENUATION CHARACTERISTIC

891.6 – 898.3MHz	80dB minimum 82dB at 25°C
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ELECTRICAL

Impedance	50ohms
Intermodulation products	-150dBc with 2 x 43dBm carriers, reflected mode

ENVIRONMENTAL

For further details of environmental compliance, please contact Kaelus.

Temperature range	-10° to +60°C +14° to +140°F
Ingress protection	Indoor
Altitude	2000m 6582ft max

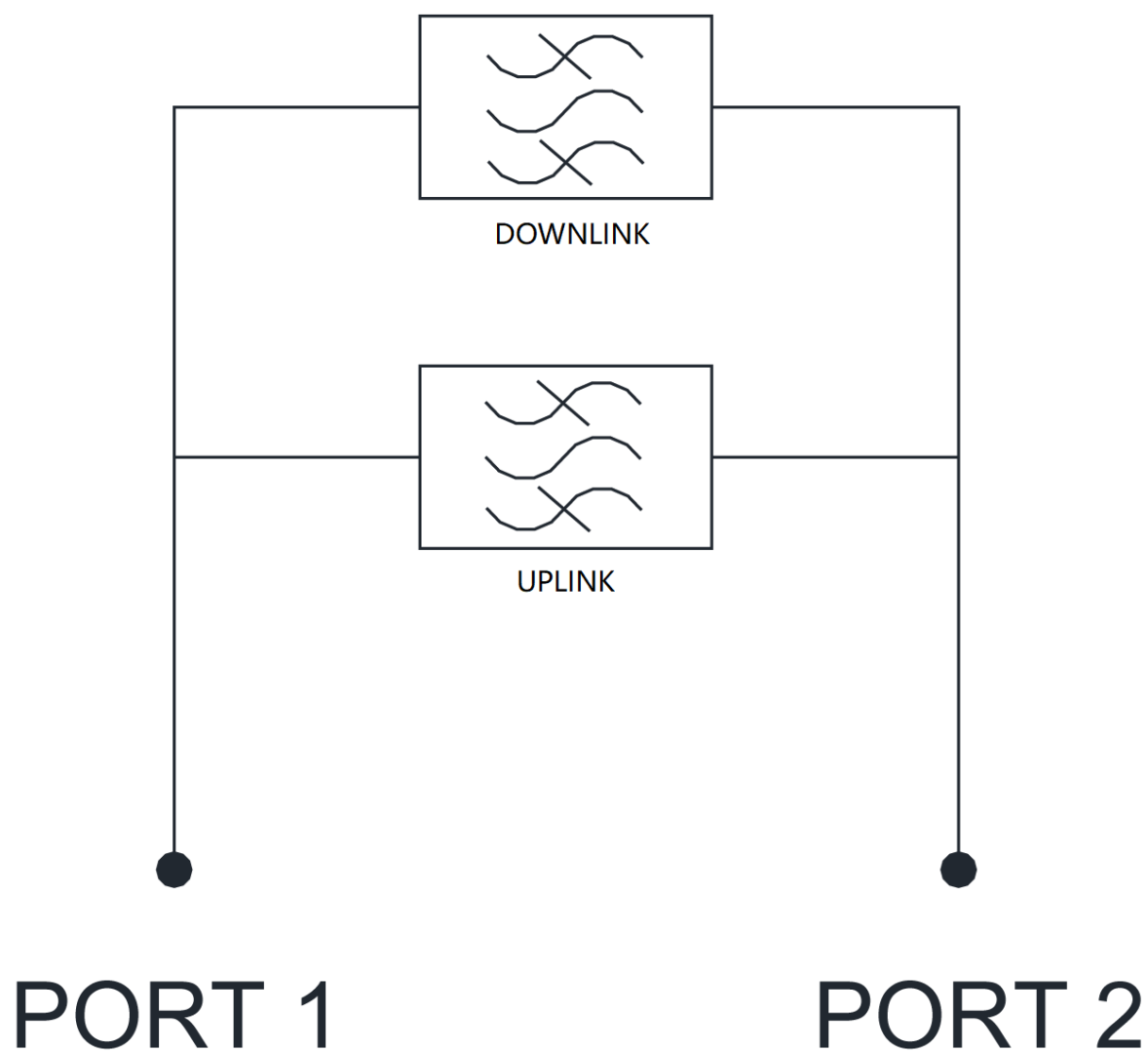
MECHANICAL

Dimensions H x D x W	400 x 380 x 78mm 15.7 x 14.9 x 3.07in
Weight	15kg 33.07lbs
Finish	Powder coated, light grey (RAL7035)
Connectors	7-16 (f) x 2
Mounting	Bracket for pole/wall mounting included

ORDERING INFORMATION

PART NUMBER	DESCRIPTION
DDF9005F1V1-1	850MHz indoor interference mitigation filter

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM

