

BSF0020F4V1-1

TWIN BANDSTOP GOGO WIRELESS INTERFERENCE MITIGATION FILTER

The BSF0020F4V1 is ideal for co-located 700, 850 and GOGO Wireless networks. Utilising a 1MHz guardband the BSF0020F4V1 provides rejection of the GOGO Wireless band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020F4V1 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.



FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of GOGO Wireless band
- DC/AISG pass
- Twin unit

TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 893MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.1dB typical, 0.7dB maximum @869-890MHz 1.7dB typical, 2.7dB maximum @890-893MHz
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average @ 869-890MHz 20W average @890-893MHz	
Rejection	35dB minimum, 60dB typ @ 894 - 896MHz	

ELECTRICAL

Impedance	50Ohms
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm

DC / AISG

Passband	0 - 13MHz
Insertion loss	0.3dB maximum
Return loss	15dB minimum
Input voltage range	± 33V
DC current rating	2A continuous, 4A peak
Compliance	3GPP TS 25.461

ENVIRONMENTAL

For further details of environmental compliance, please contact Kaelus.

Temperature range	-20°C to +65°C -4°F to +149°F
Ingress protection	IP67
Altitude	2600m 8530ft
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE

MECHANICAL

Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg 17.64 lbs estimated
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles (See ordering information). The bracket also designed to fit specific customer frame

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F4V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F4V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM

ANT1



BTS1

ANT2



BTS2

MECHANICAL BLOCK DIAGRAM

BSF0020F4V1-1 shown

