

BPF0016F1V1-1

TWIN BANDPASS FILTER, E900

Ideal for co-located 850 and 900MHz systems the BPF0016 filter is a full band E900MHz bandpass filter. Capable of being used in an outdoor environment, the BPF0016 will provide rejection of the 850MHz downlink when small (2.5MHz) guard bands are required.



FEATURES

- Rejection of 850MHz downlink
- TwinFilter Structure (for main and diversity)
- Low insertion loss
- Full EGSM 900 Tx and Rx Band
- DC/AISG bypass path configurable
- Outdoor and indoor configurations

TECHNICAL SPECIFICATIONS

BANDS	DOWNLINK (TX) PATH	UPLINK (RX) PATH
Passband	925 - 960MHz	880 - 915MHz
Bandwidth	35MHz	
Insertion loss	0.2dB typical at mid-band	0.3dB typical at mid-band, 1.2dB maximum at band edge
Return loss	19dB minimum	18dB minimum (-20°C to +60°C) 17dB minimum (-40°C to -20°C)
EVM	2% maximum	8.5% typical, 10% maximum @ 882.5MHz, 2% typical. >886MHz

ELECTRICAL

Impedance	50 Ohms
Intermodulation products	-150dBc maximum all ports (3rd Order, 2 x 40W carriers)
Maximum input power	300W (average) / 2.5kW (PEP)
Attenuation 870 - 877.5MHz	46dB typical, 44dB minimum

DC / AISG

Passband	0 - 3MHz
Insertion loss	0.3dB typical
Return loss	15dB minimum
Input voltage range	+/- 33V maximum
DC current rating	2A continuous, 4A peak maximum

ENVIRONMENTAL

Temperature range	-40°C to +60°C -40°F to 140°F
Ingress protection	IP67
Altitude	3,000m 10,000ft
Lightning protection	RF: ±5kA maximum (8/20us), IEC 61000-4-5
MTBF	>1,000,000 hours
Compliance	ETSI EN 300 019 class 4.2H, RoHS

MECHANICAL

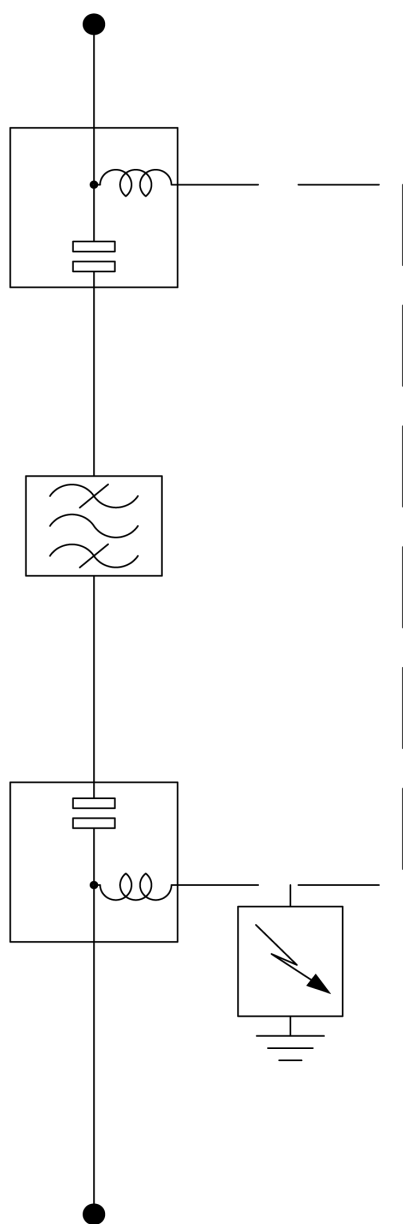
Dimensions H x D x W (single unit)	246 x 297 x 87mm 9.7 x 11.7 x 3.4in Excluding brackets and connectors
Weight	7.0kg 15.4lbs
Finish	Powder coated, light grey (RAL7035)
Connectors	DIN 7-16 (F) x 4 long neck (BPF0016FxV1-1) 4.3-10 (F) x 4 long neck (BPF0016FxV2-1)
Mounting	Pole/wall bracket supplied with two metal clamps for 45-178 mm diameter poles

ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS	DC/AISG CONFIGURATION
BPF0016F1V1-1	TWIN 2 in /2 out	Reject 870-877.5MHz	DIN 7-16 (F)	FIXED DC
BPF0016F1V2-1	TWIN 2 in /2 out	Reject 870-877.5MHz	4.3-10 (F)	FIXED DC
BPF0016F2V1-1	TWIN 2 in /2 out	Reject 870-880MHz	DIN 7-16 (F)	FIXED DC
BPF0016F2V2-1	TWIN 2 in /2 out	Reject 870-880MHz	4.3-10 (F)	FIXED DC

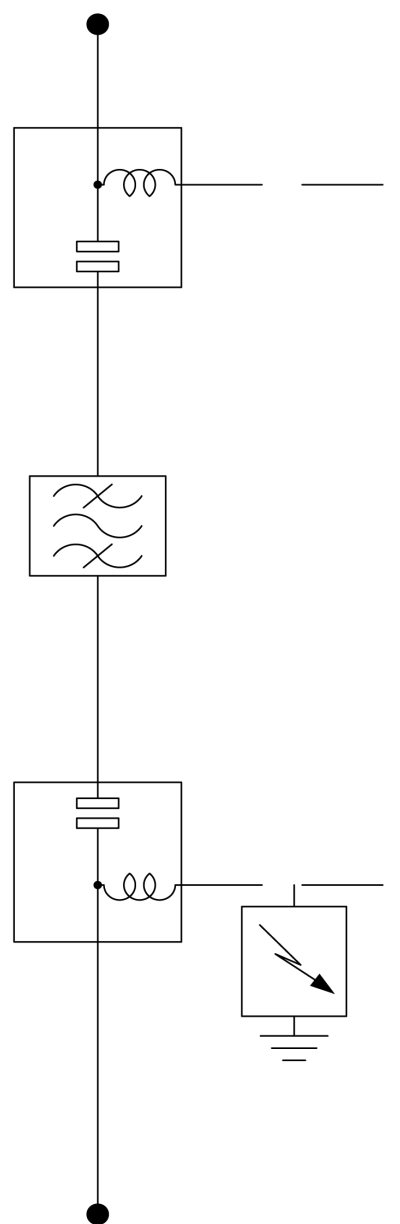
ELECTRICAL BLOCK DIAGRAM

ANT 0



BTS 0

ANT 1



BTS 1

MECHANICAL BLOCK DIAGRAM

