

BAND PASS BASE STATION FILTERS

FBP Series • 136 - 960 MHz



Fiplex FBP Series, are versatile single, dual or triple cavities bandpass filters. They are intended to "clean" the received signal from a congested environment. Also, the sharp filtering response make them adequate to reduce the emission of intermodulation products from transmitters. TEM coaxial resonant cavities are 7" O.D. ("N" type). Models ending in "/3" use $\frac{3}{4}$ wavelength coaxial resonators in order to improve the Q factor of the cavity. Cavity outer conductors are made of 6063-T6 aluminum, passivated to avoid corrosion. Copper inner lines are silver plated in order to get a long life performance. Thermal stability is obtained by using INVAR rods to control the tuning of the cavities. Standard connectors are N female. For other than specified, please contact the factory or sales offices.



FBP45-1N



FBP15-2N

ELECTRICAL SPECIFICATIONS	FBP15-1N	FBP15-2N	FBP45-1N	FBP45-2N	FBP90-1/3N
Frequency Range - MHz	136 – 174	136 – 174	400 – 520	400 – 520	800 – 960
Continuous Power Input, Max – W.	250	250	250	250	250
Number of cavities	1	2	1	2	1
Cavity O.D., in inches	7	7	7	7	7
Insertion Loss at fo – dB	0.5 min	1.0 min	0.5 min	1.0 min	0.5 min
RL - dB	22	22	22	22	22
Connectors, Standard Type	N(f)	N(f)	N(f)	N(f)	N(f)
Connectors, Optional	BNC(f) ; UHF(f)	BNC(f) ; UHF(f)	BNC(f) ; DIN 7/16	BNC(f) ; DIN 7/16	BNC(f) ; DIN 7/16
Temperature range - °C	- 30 to + 60	- 30 to + 60	- 30 to + 60	- 30 to + 60	- 30 to + 60

MECHANICAL SPECIFICATIONS	FBP15-1N	FBP15-2N	FBP45-1N	FBP45-2N	FBP90-1/3N
Height – in (mm)	36.0(915.0)	36.0(915.0)	16.0(406.0)	16.0(406.0)	20.0(506.0)
Width – in (mm)	19.0(483.0)	19.0(483.0)	19.0(483.0)	19.0(483.0)	19.0(483.0)
Depth – in (mm)	8.0(203.0)	8.0(203.0)	8.0(203.0)	8.0(203.0)	8.0(203.0)
Weight – lbs (kg)	9.3(4.2)	15.7(7.1)	5.8(2.6)	7.7(3.5)	6.2(2.8)