

Coaxial High Pass Filter

50Ω 600 to 3000 MHz

Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

RF Power Input 0.5W max.

Permanent damage may occur if any of these limits are exceeded.

Features

- rugged shielded case
- other standard and custom BHP models available with wide selection of fco

Applications

- lab use
- transmitters/receivers
- radio communications

BHP-600+



Generic photo used for illustration purposes only

CASE STYLE: FF55

Connectors	Model
BNC	BHP-600+

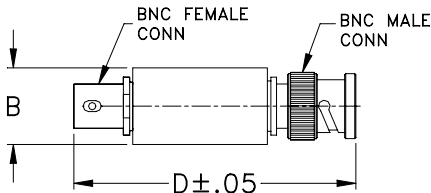
+RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

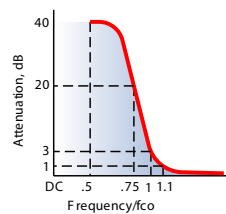
High Pass Filter Electrical Specifications

STOPBAND (MHz)		fco (MHz) Nom.	PASSBAND (MHz)	VSWR (:1)	
(loss > 40 dB)	(loss > 20 dB)	(loss 3 dB)	(loss < 1 dB)	Stopband Typ.	Passband Typ.
DC-350	350-440	545	600-3000	17	2.0

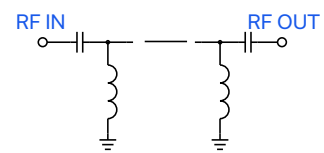
Outline Drawing



typical frequency response

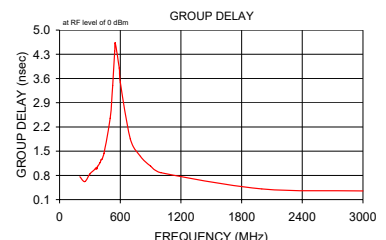
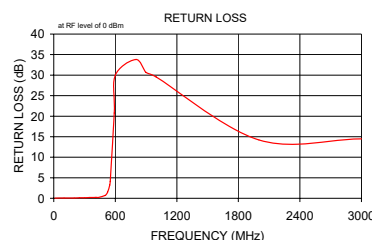
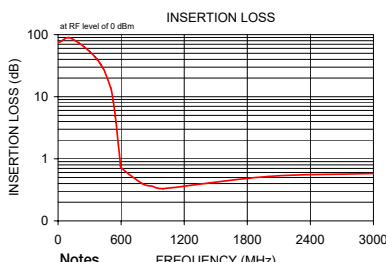


electrical schematic



Typical Performance Data

Frequency (MHz)	Insertion Loss (dB)		Return Loss (dB)	Frequency (MHz)	Group Delay (nsec)
	$\bar{x}$	σ			
10.00	74.47	4.27	0.04	200.00	0.76
100.00	89.80	7.14	0.05	250.00	0.62
200.00	72.58	0.82	0.07	300.00	0.84
250.00	63.01	0.88	0.12	350.00	0.98
300.00	53.56	0.81	0.12	360.00	1.01
350.00	44.05	0.88	0.18	362.00	1.02
360.00	42.15	0.91	0.18	364.00	0.99
364.00	41.37	0.91	0.18	366.00	1.00
366.00	40.99	0.91	0.19	368.00	1.00
368.00	40.60	0.92	0.19	370.00	0.99
370.00	40.22	0.92	0.19	372.00	1.02
372.00	39.82	0.92	0.18	374.00	1.05
374.00	39.45	0.93	0.19	376.00	1.06
376.00	39.06	0.93	0.19	400.00	1.17
400.00	34.36	0.98	0.20	410.00	1.25
410.00	32.39	1.00	0.22	420.00	1.27
420.00	30.45	1.01	0.19	430.00	1.35
430.00	28.45	1.04	0.21	440.00	1.44
440.00	26.44	1.06	0.23	500.00	2.45
500.00	13.91	1.14	0.68	525.00	3.40
525.00	8.60	1.05	1.46	545.00	4.39
545.00	4.82	0.82	3.18	551.00	4.63
551.00	3.88	0.72	4.10	590.00	3.90
590.00	0.89	0.15	20.77	600.00	3.49
600.00	0.72	0.07	29.98	700.00	1.85
800.00	0.40	0.03	33.79	800.00	1.35
900.00	0.36	0.03	30.63	900.00	1.07
1000.00	0.33	0.01	29.54	1000.00	0.88
2000.00	0.52	0.05	14.20	2000.00	0.41
3000.00	0.58	0.05	14.47	3000.00	0.35



Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
- The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



www.minicircuits.com P.O. Box 350166, Brooklyn, NY 11235-0003 (718) 934-4500 sales@minicircuits.com

REV. E
ECO-023903
BHP-600+
MCL NY
241210

Coaxial High Pass Filter

BHP-600+

Typical Performance Data

FREQUENCY (MHz)	INSERTION LOSS (dB)	RETURN LOSS (dB)	FREQUENCY (MHz)	GROUP DELAY (nsec)
10.0	74.47	0.04	200.0	0.760
100.0	89.80	0.05	250.0	0.620
200.0	72.58	0.07	300.0	0.840
250.0	63.01	0.12	350.0	0.980
300.0	53.56	0.12	360.0	1.010
350.0	44.05	0.18	362.0	1.020
360.0	42.15	0.18	364.0	0.990
362.0	41.76	0.18	366.0	1.000
364.0	41.37	0.18	368.0	1.000
366.0	40.99	0.19	370.0	0.990
368.0	40.60	0.19	372.0	1.020
370.0	40.22	0.19	374.0	1.050
372.0	39.82	0.18	376.0	1.060
374.0	39.45	0.19	400.0	1.170
376.0	39.06	0.19	410.0	1.250
400.0	34.36	0.20	420.0	1.270
410.0	32.39	0.22	430.0	1.350
420.0	30.45	0.19	440.0	1.440
430.0	28.45	0.21	450.0	1.510
440.0	26.44	0.23	460.0	1.630
450.0	24.44	0.33	465.0	1.720
460.0	22.38	0.35	470.0	1.800
465.0	21.34	0.37	475.0	1.890
470.0	20.29	0.39	500.0	2.450
475.0	19.23	0.42	505.0	2.590
500.0	13.91	0.68	510.0	2.760
510.0	11.76	0.90	515.0	2.960
520.0	9.64	1.23	520.0	3.170
525.0	8.60	1.46	525.0	3.400
545.0	4.82	3.18	545.0	4.390
551.0	3.88	4.10	551.0	4.630
557.0	3.07	5.28	557.0	4.760
564.0	2.30	7.09	564.0	4.780
570.0	1.79	9.07	570.0	4.680
577.0	1.35	12.04	577.0	4.460
583.0	1.09	15.36	583.0	4.210
590.0	0.89	20.77	590.0	3.900
600.0	0.72	29.98	600.0	3.490
650.0	0.56	15.56	650.0	2.290
700.0	0.46	18.08	700.0	1.850
750.0	0.41	25.35	750.0	1.570
800.0	0.40	33.79	800.0	1.350
850.0	0.39	30.47	850.0	1.190
900.0	0.36	30.63	900.0	1.070
950.0	0.35	32.35	950.0	0.970
1000.0	0.33	29.54	1000.0	0.880
1500.0	0.51	13.91	1500.0	0.520
2000.0	0.52	14.20	2000.0	0.410
2500.0	0.50	15.23	2500.0	0.370
3000.0	0.58	14.47	3000.0	0.350

REV. X1
BHP-600+
070628
Page 1 of 1



IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS9100 CERTIFIED RoHS compliant

P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661



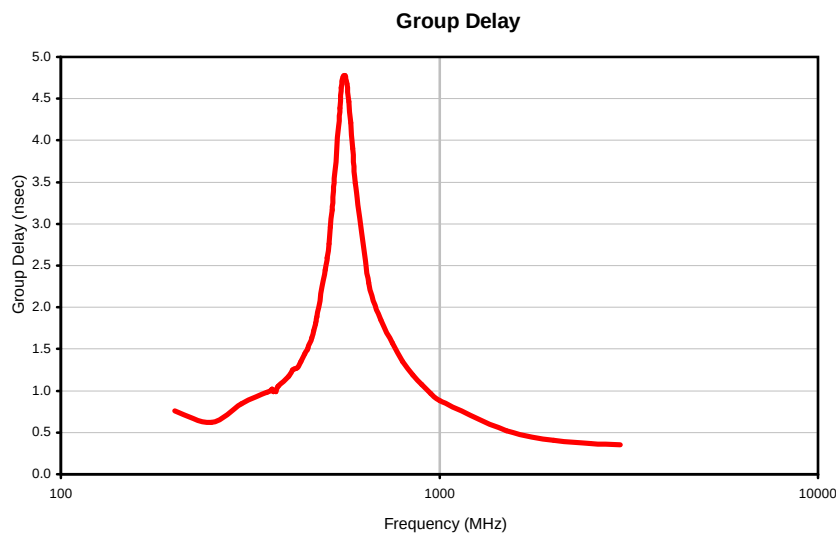
The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



Coaxial High Pass Filter

BHP-600+

Typical Performance Curves



Mini-Circuits®

IF/RF MICROWAVE COMPONENTS • ISO 9001 ISO 14001 AS 9100 CERTIFIED RoHS compliant
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661

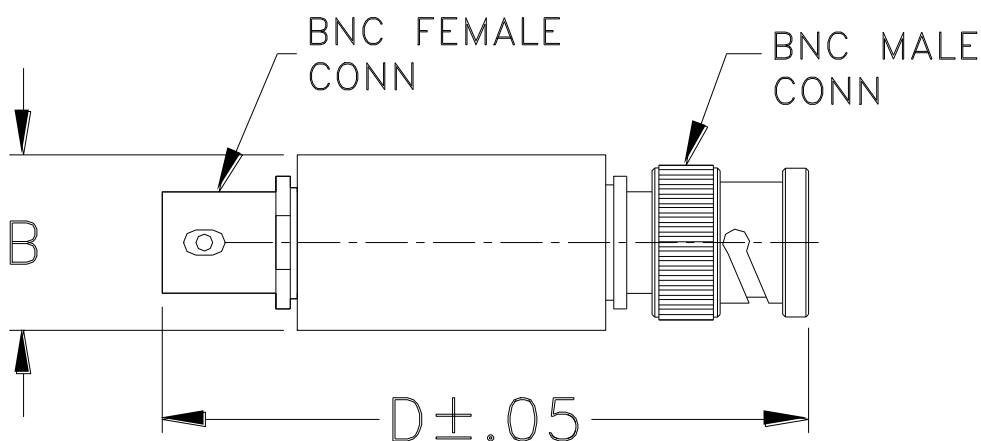


The Design Engineers Search Engine finds the model you need, Instantly • For detailed performance specs & shopping online see



REV. X1
BHP-600+
070628
Page 1 of 1

Outline Dimensions



CASE #.	A	B	C	D	E	WT GRAMS
FF55	--	.57 (14.47)	--	2.59 (65.79)	--	40.0

Dimensions are in inches (mm). Tolerances: 2Pl. +.03/-.04; 3Pl. ± .015

Note:

1. Case material: Stainless steel.



All Mini-Circuits products are manufactured under exacting quality assurance and control standards, and are capable of meeting published specifications after being subjected to any or all of the following physical and environmental test.

Specification	Test/Inspection Condition	Reference/Spec
Operating Temperature	-55° to 100°C Ambient Environment	Individual Model Data Sheet
Storage Temperature	-55° to 100° C Ambient Environment	Individual Model Data Sheet
Barometric Pressure	100,000 Feet	MIL-STD-202, Method 105, Condition D
Humidity	90% RH, 65°C Units may require bake-out after humidity to restore full performance.	MIL-STD-202, Method 103
Thermal Shock	-65° to 125°C, 5 cycles	MIL-STD-202, Method 107, Condition B
Vibration (High Frequency)	20g peak, 10-2000 Hz, 12 times in each of three perpendicular directions (total 36)	MIL-STD-202, Method 204, Condition D
Mechanical Shock	100g, 6ms sawtooth, 3 shocks each direction 3 axes (total 18)	MIL-STD-202, Method 213, Condition I