Coaxial **Bandpass Filter**

50Ω 238 to 242 MHz

The Big Deal

- High rejection
- · Good VSWR, 1.3:1 typical in passband
- Narrow Bandwidth
- Flat group delay over passband
- Rugged unibody construction
- Connectorized package

Product Overview

BBP-240+ is a 50Ω bandpass filter in a connectorized package. This bandpass filter covers from 238 to 242 MHz, these units offer good matching within the passband and high rejection. This unit uses a miniature high Q capacitors and wire welded inductors for high reliability. It has repeatable performance across production lots and consistent performance across temperature.

Key Features

Feature	Advantages			
High rejection	This enables the filter to attenuate spurious signals and reject harmonics for broad frequency band.			
Good VSWR, 1.3:1 typical in passband	This provides well matched input and output ports.			
Flat group delay over passband	The model has flat group delay of over passband which ensures that the signal distortion is very less.			
Connectorized package	Connectorized package is easy to interface with other devices and well suited for test setups.			



BBP-240+

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Functional Schematic

Typical Frequency Response

FREQUENCY (MHz)

F2

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

F5 F6 RF OUT

F7

- Narrow bandwidth
- Flat group delay over passband
- Rugged unibody construction
- Connectorized package

Applications

RF IN

DC F3 F4

INSERTION LOSS (dB)

- Fixed applications
- Mobile communication



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CASE STYLE: FF55

Connectors Model BNC BBP-240+

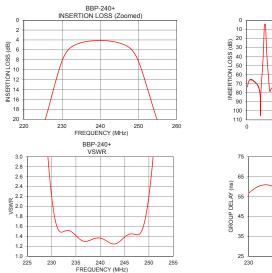
Electrical \$	Specifications	at 25°C
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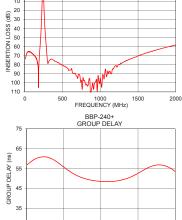
Parameter		F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center frequency	-	-	-	240	-	MHz
Pass Band	Insertion Loss	F1-F2	238 - 242	-	4.3	5.0	dB
	VSWR	F1-F2	238 - 242	-	1.3	1.8	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC - 210	40	48	-	dB
		F3-F4	210 - 220	20	32	-	dB
Stop Band, Upper	Insertion Loss	F5-F6	260 - 275	20	30	-	dB
		F6-F7	275 - 2000	40	49	-	dB

Maximum Ratings				
Operating Temperature	-40°C to 85°C			
Storage Temperature	-55°C to 100°C			
RF Power Input	0.5 W max.			

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

Typical Performance Data at 25°C				
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (ns)
10	73.49	61.20	235.5	54.33
50	65.58	46.59	236.0	53.07
100	67.79	67.40	236.5	51.98
210	49.20	69.16	237.0	51.07
220	33.11	29.76	237.5	50.34
225	21.66	12.46	238.0	49.76
238	4.18	1.32	238.5	49.30
239	4.15	1.36	239.0	48.95
240	4.14	1.36	239.5	48.69
241	4.15	1.32	240.0	48.52
242	4.19	1.27	240.5	48.42
256	22.72	11.00	241.0	48.42
260	30.66	18.29	241.5	48.50
275	50.90	45.12	242.0	48.68
300	78.19	81.87	242.5	48.98
400	76.24	152.67	243.0	49.41
500	80.08	150.80	243.5	49.98
1000	94.62	61.67	244.0	50.71
1500	70.24	42.52	244.5	51.59
2000	58.31	41.93	245.0	52.59





235

240 FREQUENCY (MHz)

245

250

BBP-240+ INSERTION LOSS

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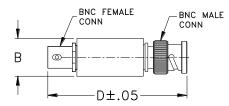
REV. A ECO-005139 BBP-240+ EDU3179 URJ 201120 Page 2 of 3



Coaxial Connections

PORT - 1	BNC-Male
PORT - 2	BNC-Female

Outline Drawing



Outline Dimensions (inch)

А	В	С	D	Е	Wt.
	0.57		2.59		grams
	14.47		65.79		40

Note: Please refer to case style drawing for details

Notes
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