

Bandpass Filter

RBP-415+

50Ω 404 to 426 MHz

Maximum Ratings

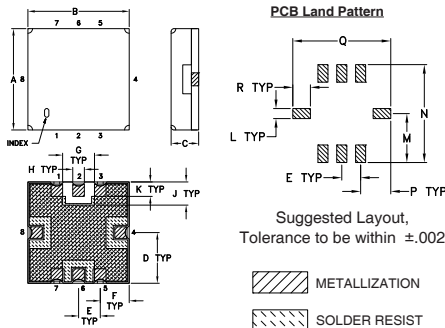
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W at 25°C

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

Pin Connections

RF IN	2
RF OUT	6
GROUND	1,3,4,5,7,8

Outline Drawing

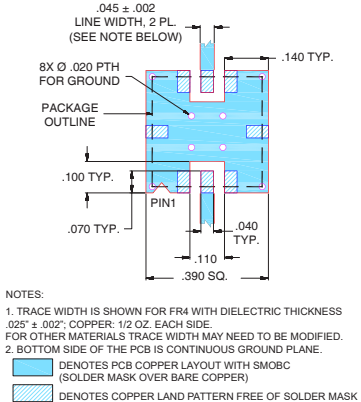


Outline Dimensions (inch/mm)

A	B	C	D	E	F	G	H	J
.350	.350	.100	.175	.075	.100	.110	.040	.080
8.89	8.89	2.54	4.45	1.91	2.54	2.79	1.02	2.03
K	L	M	N	P	Q	R	wt	
.050	.040	.195	.390	.120	.390	.070	grams	
1.27	1.02	4.95	9.91	3.05	9.91	1.78	0.25	

Note: Please refer to case style drawing for details

Demo Board MCL P/N: TB-332 Suggested PCB Layout (PL-176)



Features

- linear phase, up to ±7deg typ. @ Fc ±45MHz
- good VSWR, 1.2:1 typ. @ passband
- small size 0.35" x 0.35"
- shielded case
- aqueous washable

Applications

- harmonic rejection
- transmitters / receivers
- CDMA



Generic photo used for illustration purposes only

CASE STYLE: GP731

+RoHS Compliant

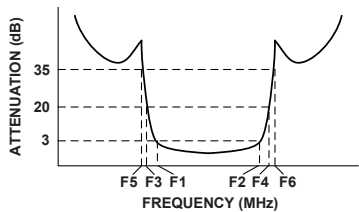
The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

Available Tape and Reel at no extra cost	
Reel Size	Devices/Reel
7"	10, 20, 50, 100, 200
13"	500, 1000

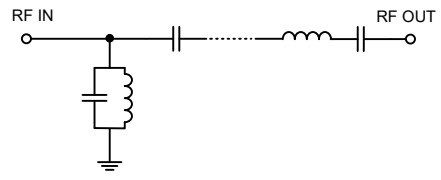
Bandpass Filter Electrical Specifications (T_{AMB} = 25°C)

CENTER FREQ. (MHz)	PASSBAND (MHz) (Loss < 3dB)	STOPBANDS (MHz)				MAXIMUM DEVIATION FROM LINEAR PHASE (deg.)	VSWR (:1)	
		Loss > 20dB		Loss > 35dB			Passband	Stopband
Fc	F1 - F2	F3	F4	F5	F6	Fc ± 45MHz	Max.	Typ.
415	404 - 426	225	550	120	750-2000	±10	1.7	18

Typical Frequency Response

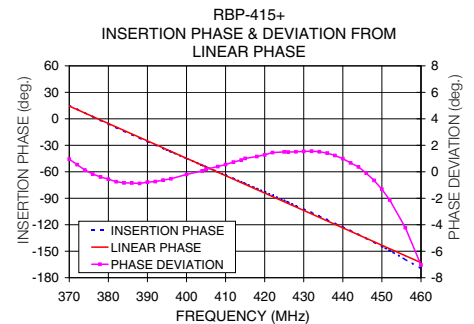
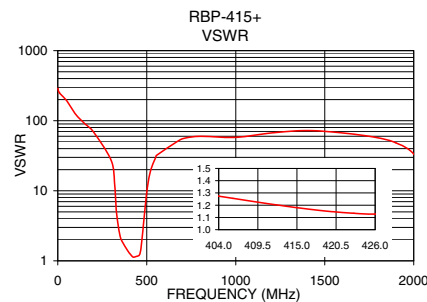
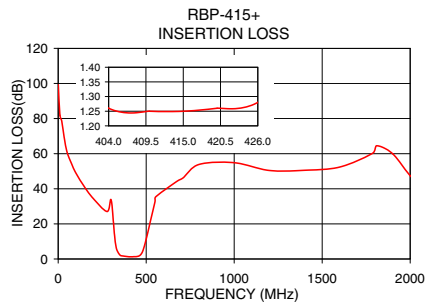


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Deviation from Linear Phase (deg)
0.3	99.29	289.53	370.0	0.95
50.0	61.00	193.02	374.0	0.13
120.0	45.73	108.58	380.0	-0.56
225.0	31.41	59.91	386.0	-0.85
318.0	15.95	13.81	390.0	-0.78
328.0	7.41	5.85	396.0	-0.53
340.0	3.23	2.65	404.0	0.06
404.0	1.26	1.27	410.0	0.55
425.0	1.28	1.13	415.0	1.01
426.0	1.28	1.13	422.0	1.45
475.0	3.35	2.24	426.0	1.49
490.0	7.48	5.59	436.0	1.41
510.0	15.50	13.92	440.0	0.99
550.0	32.64	29.96	446.0	-0.11
750.0	49.35	53.46	450.0	-1.32
900.0	66.98	57.91	456.0	-4.22
2000.0	47.47	33.42	460.0	-7.04



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.
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