

High Pass Filter

JCHP-1200+

50Ω 1400 to 3000 MHz

Maximum Ratings

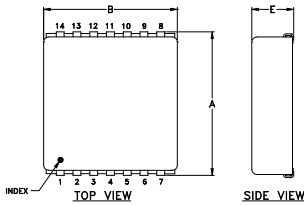
Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	0.5W

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

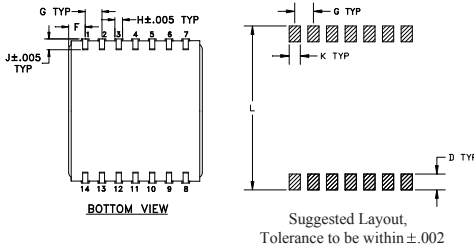
Pin Connections

INPUT	2
OUTPUT	9
GROUND	1,3,4,5,6,7,8,10,11,12,13,14

Outline Drawing



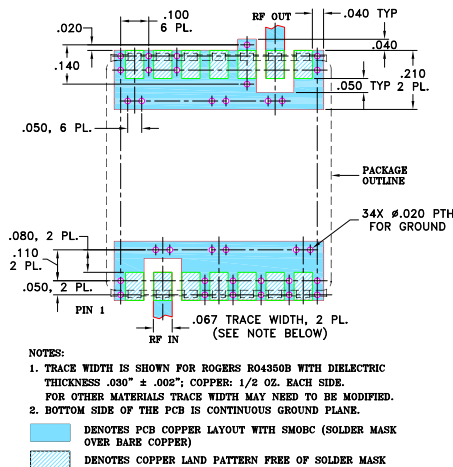
PCB Land Pattern



Outline Dimensions (inch/mm)

A	B	C	D	E	F
.870	.800	--	.100	.250	.100
22.09	20.32	--	2.54	6.35	2.54
G	H	J	K	L	wt.
.100	.047	.065	.065	.890	grams
2.54	1.19	1.65	1.65	22.60	4.0

Demo Board MCL P/N: TB-442+ Suggested PCB Layout (PL-269)



Features

- low insertion loss, 1dB typ @ passband
- good VSWR, 1.5:1 typ @ passband
- high rejection
- aqueous washable

Applications

- transmitters/receivers
- sub-harmonic rejection
- military communications



CASE STYLE: BG291

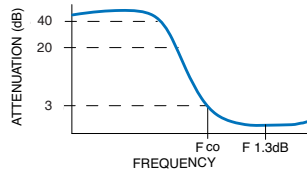
+RoHS Compliant

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

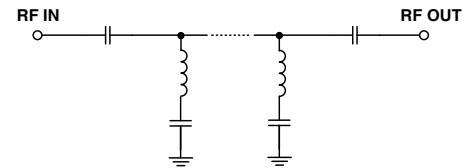
High Pass Filter Electrical Specifications (T_{AMB} = 25°C)

STOPBAND (MHz)		f _{co} , MHz Nom.	PASSBAND (MHz)	VSWR (:1)	
(Loss > 40dB)	(Loss > 20dB)	(Loss 3dB)	(Loss < 2dB)	Stopband Typ.	Passband Typ.
DC - 730	DC - 1040	1200	1400 - 3000	20	1.5

Typical Frequency Response

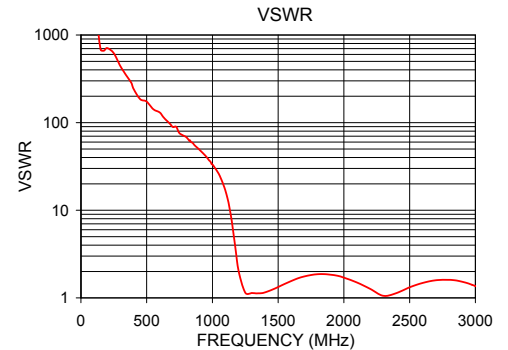


Functional Schematic



Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1.0	78.15	1119.71
10.0	76.42	2277.04
50.0	64.15	8883.34
300.0	50.10	441.90
730.0	51.48	86.53
1000.0	38.26	33.37
1040.0	32.09	27.10
1100.0	20.20	16.51
1125.0	14.89	11.68
1150.0	9.77	7.03
1175.0	5.57	3.68
1200.0	2.98	2.00
1250.0	1.44	1.14
1300.0	1.10	1.14
1400.0	0.85	1.16
2000.0	0.87	1.70
2500.0	0.67	1.32
3000.0	1.18	1.36



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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