CBP-2400A+

50Ω 2200 to 2600 MHz

The Big Deal

- Excellent Rejection
- Low passband Insertion Loss
- Miniature shielded package



CASE STYLE: KU1513

Product Overview

CBP-2400A+ is a ceramic-coaxial-resonator based bandpass filter in a shielded package fabricated using SMT technology. This filter offers outstanding close-in rejection, low insertion loss and high power handling for use in mobile satellite, ISM and amateur radio

Key Features

Feature	Advantages					
High Selectivity	The CBP-2400A+ filter incorporates High-Q ceramic resonators that enables sharp rejection near passband.					
Low Passband VSWR	This filter maintains typical VSWR over a wide passband frequency range making this filter easier to integrate into receiver and transmitter RF chains with less concerns for in band frequency ripple.					
Small size, 0.550" x 1.040" x 0.185"	The small surface mount package enables the CBP-2400A+ to be used in compact designs.					
Rugged construction	The CBP-2400A+ has been qualified over wide range of thermal, mechanical and environmental conditions including withstanding the stress of extensive solder reflow cycles.					

For detailed performance speca & shopping online see web site

Bandpass Filter

 50Ω 2200 to 2600 MHz

CBP-2400A+



CASE STYLE: KU1513 PRICE: \$29.95 ea. QTY (1-9)

20

20

Тур.

2400

1.1

1.6

31

31

Max.

2.32

Unit

MHz

dΒ

:1

dB

:1

dB

:1

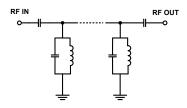
Features

- · Low Insertion loss
- High selectivity
- · Miniature shielded package

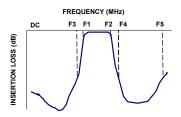
Applications

- Defense systems
- ISM
- · Mobile satellite
- · Amateur radio

Functional Schematic



Typical Frequency Response



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

Insertion Loss F4-F5 Stop Band, Upper **VSWR Maximum Ratings**

Center Frequency

Insertion Loss

Insertion Loss

VSWR

VSWR

Parameter

Pass Band

Stop Band, Lower

Operating Temperature Storage Temperature

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

Typical Performance Data at 25°C

Electrical Specifications at 25°C

F1-F2

F1-F2

DC-F3

DC-F3

-40°C to 85°C

-55°C to 100°C

5W Max.

Frequency (MHz)

2200-2600

2200-2600

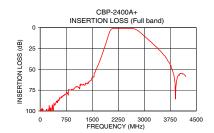
DC-1780

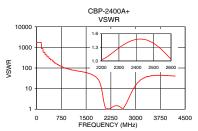
DC-1780

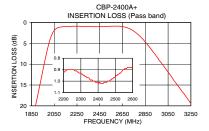
3480-4200

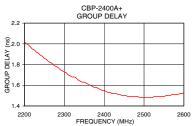
3480-4200

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)		
1	100.12	1737.18	2200	2.02		
750	78.92	115.81	2220	1.95		
1500	60.32	59.91	2250	1.86		
1780	32.95	38.61	2300	1.73		
1800	30.59	36.20	2350	1.63		
1880	20.80	25.94	2400	1.55		
1915	16.25	19.98	2420	1.52		
1990	6.52	6.39	2440	1.51		
2020	3.59	3.33	2450	1.50		
2060	1.63	1.60	2460	1.49		
2200	0.92	1.03	2480	1.49		
2400	1.01	1.47	2500	1.48		
2600	0.88	1.04	2510	1.48		
2800	3.22	3.67	2520	1.48		
2900	6.37	7.76	2530	1.49		
3100	13.87	21.73	2540	1.49		
3280	20.46	32.79	2550	1.49		
3480	28.90	41.37	2560	1.50		
3510	30.15	43.44	2580	1.51		
4200	58.74	40.41	2600	1.53		











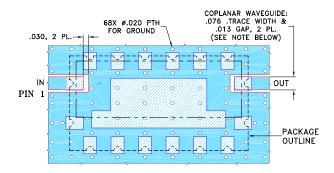
P.O. Box 350166, Brooklyn, New York 11235-0003 (718) 934-4500 Fax (718) 332-4661 The Design Engineers Search Engine Provides ACTUAL Data Instantly at minicipouits.com IF/RF MICROWAVE COMPONENTS

REV.OR

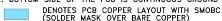
Pad Connections

INPUT	1
OUTPUT	10
GROUND	2 to 9, 11 to 16

Demo Board MCL P/N: TB-578+ Suggested PCB Layout (PL-331)

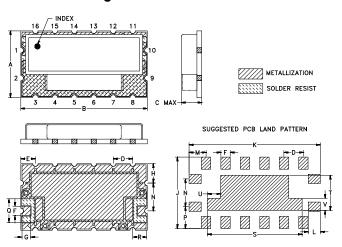


NOTE: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .060" ± .004";
COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.



DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Outline Drawing



Outline Dimensions (inch)

.550	B 1.040 26.24	.185	.160	.120	.077	.070	.160	.590	1.080	.100
M .140 3.56	N .230 5.84	P .180 4.57	.195	.115	S .780 19.81	.290	.110	.100		Wt. grams 2.6



For detailed performance specs & shopping online see web site