CBP-1260C+

 $50\Omega$ 1200 to 1320 MHz

## The Big Deal

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



CASE STYLE: MP1766

### **Product Overview**

CBP-1260C+ 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 aviation, mobile radio, broadband and fixed wireless.

## **Key Features**

Feature	Advantages
High Selectivity	The CBP-1260C+ filter incorporates High-Q ceramic resonators that enables sharp rejection near passband.
Low Passband VSWR	This filter maintains typical VSWR over passband frequency range making this filter easier to integrate into receiver and transmitter RF chains with less concerns for in band frequency ripple.
Rugged construction	The CBP-1260C+ has been qualified over wide range of thermal, mechanical and environmental conditions including withstanding the stress of extensive solder reflow cycles.

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# **Bandpass Filter**

 $50\Omega$ 1200 to 1320 MHz

## **CBP-1260C+**



CASE STYLE: MP1766 PRICE: \$26.95 ea. QTY (1-9)

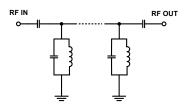
#### **Features**

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

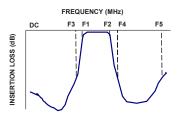
#### **Applications**

- Traffic collision avoidance system (TCAS)
- · Aeronautical radio navigation
- · Fixed satellite
- · Radio astronomy
- Radar and navigation system

#### **Functional Schematic**



#### **Typical Frequency Response**



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

#### Electrical Specifications at 25°C

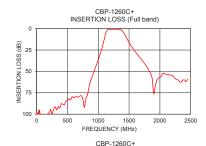
Parai	meter	F#	Frequency (MHz)	Min.	Тур.	Max.	Unit
	Center Frequency	_	_	_	1260	_	MHz
Pass Band	Insertion Loss	F1-F2	1200-1320	_	0.7	2	dB
	VSWR	F1-F2	1200-1320	_	1.3	_	:1
Stop Bond Lower	Insertion Loss	DC-F3	DC-1025	20	30	_	dB
Stop Band, Lower	VSWR	DC-F3	DC-1025	_	20	_	:1
Stop Band, Upper	Insertion Loss	F4-F5	1640-2450	20	30	_	dB
	VSWR	F4-F5	1640-2450	_	20	_	:1

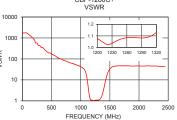
Maximum Ratings								
Operating Temperature	-40°C to 85°C							
Storage Temperature	-55°C to 100°C							
RF Power Input	5W							

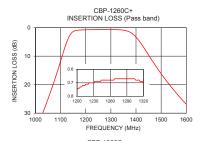
Permanent damage may occur if any of these limits are exceeded.

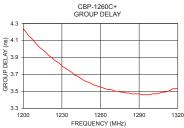
#### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	103.89	1737.18	1200	4.24
860	64.83	59.91	1204	4.16
1025	30.87	39.49	1208	4.10
1085	15.99	23.18	1214	4.00
1112	8.31	10.31	1218	3.95
1128	4.27	4.66	1220	3.92
1142	2.03	2.32	1236	3.74
1156	1.12	1.41	1230	3.80
1200	0.75	1.08	1234	3.76
1230	0.70	1.04	1238	3.72
1260	0.68	1.08	1244	3.66
1300	0.67	1.09	1250	3.61
1320	0.70	1.13	1260	3.55
1382	1.91	2.61	1264	3.53
1415	4.94	6.66	1276	3.49
1450	9.60	16.56	1284	3.47
1540	20.79	41.37	1296	3.46
1640	30.59	46.96	1300	3.47
2000	57.17	45.72	1310	3.49
2450	58.77	42.38	1320	3.54









Notes

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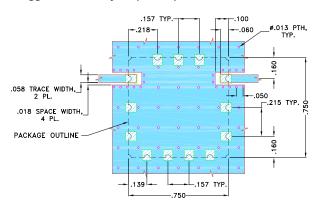
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#### **Pad Connections**

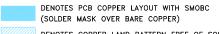
INPUT	1
OUTPUT	10
GROUND	2,3,4,5,6,7,8,9,11,12,13

#### Demo Board MCL P/N: TB-684+ Suggested PCB Layout (PL-373)



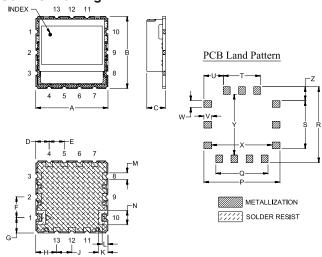
#### NOTES:

- TRACE WIDTH IS SHOWN FOR OAK (OAK-602) WITH DIELECTRIC THICKNESS
  .022"±.0015". COPPER: 1/2 OZ. EACH SIDE.
  FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
   BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.



DENOTES COPPER LAND PATTERN FREE OF SOLDERMASK

#### **Outline Drawing**



#### Outline Dimensions (inch )

A	B	C	D	E	F	G	H	J	K	L	M	N
. <b>750</b>	. <b>750</b>	. <b>210</b>	. <b>139</b>	.157	. <b>215</b>	<b>.160</b>	.218	. <b>157</b>	.100	.060	.069	. <b>149</b>
19.05	19.05	5.33	3.53	3.99	5.46	4.06	5.54	3.99	2.54	1.52	1.75	3.78
P . <b>790</b> 20.07	Q . <b>541</b> 13.74	R . <b>790</b> 20.07	S . <b>499</b> 12.67	T . <b>384</b> 9.75	. <b>203</b> 5.16	.080 2.03	.069 1.75	. <b>630</b>	. <b>630</b>	Z . <b>145</b> 3.68		wt, grams 4.6

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