Monolithic Block Filters

APPLICATIONS
- AMPS/CDMA
- GSM
- GPS
- DCS / PCS
- ISM 915, ISM 2.4 GHz, ISM 5.8GHz
- MMDS
- WLL

FEATURES
- Small size / low profile
- Center frequency from 300 MHz to 6 GHz
- Low insertion loss
- Excellent temperature and mechanical stability
- Reliable performance
- Easy to mount on PCB by reflow soldering
- Tape and reel packaging available

MCV Technologies, Inc., a volume supplier of microwave microelectronics and components utilizes a 45,000 square foot manufacturing facility to provide its customers with technically advanced, high quality products at competitive prices. The facilities have been ISO 9001, ISO 9002, and ISO 14001 certified.

TYPICAL PERFORMANCE
Monolithic Block Filter

REFLOW SOLDERING CONDITION

LOW COST
HIGH PERFORMANCE
FAST TURNAROUND
TECHNICAL SUPPORT
## SELECTED SPECIFICATIONS

### Bandpass Filters

<table>
<thead>
<tr>
<th>Application</th>
<th>Part Number</th>
<th>Center Freq. (MHz)</th>
<th>Bandwidth (MHz)</th>
<th>I.L. (dB)</th>
<th>Ripple (dB)</th>
<th>VSWR</th>
<th>Attenuation (dB) (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMPS</td>
<td>MBP43R836S25A</td>
<td>836.5</td>
<td>f₀ ± 12.5</td>
<td>3.0</td>
<td>1.0</td>
<td>2.0</td>
<td>18 (f₀ ± 20)</td>
</tr>
<tr>
<td>ISM915</td>
<td>MBP32R915S26A</td>
<td>915.0</td>
<td>f₀ ± 13.0</td>
<td>2.5</td>
<td>1.0</td>
<td>2.0</td>
<td>27 (837.5)</td>
</tr>
<tr>
<td>GSM</td>
<td>MBP33R902S25A</td>
<td>902.5</td>
<td>f₀ ± 12.5</td>
<td>2.5</td>
<td>1.0</td>
<td>2.0</td>
<td>30 (f₀ ± 100)</td>
</tr>
<tr>
<td>GPS</td>
<td>MBP33R947S25A</td>
<td>947.5</td>
<td>f₀ ± 12.5</td>
<td>2.5</td>
<td>1.0</td>
<td>2.0</td>
<td>30 (f₀ ± 100)</td>
</tr>
<tr>
<td>PCS</td>
<td>MBP33R1880S60A</td>
<td>1880</td>
<td>f₀ ± 30</td>
<td>2.2</td>
<td>1.0</td>
<td>2.0</td>
<td>20 (f₀ ± 100)</td>
</tr>
<tr>
<td>ISM 2.4GHz</td>
<td>MBP22R2442S84A</td>
<td>2442</td>
<td>f₀ ± 42</td>
<td>2.0</td>
<td>1.0</td>
<td>2.0</td>
<td>19 (2192)</td>
</tr>
<tr>
<td>MMDS</td>
<td>MBP1.52R2450S100A</td>
<td>2450</td>
<td>f₀ ± 50</td>
<td>2.0</td>
<td>0.5</td>
<td>2.0</td>
<td>23 (2170)</td>
</tr>
<tr>
<td>ISM 5.8GHz</td>
<td>MBP22R5800S100PC</td>
<td>5800</td>
<td>f₀ ± 50</td>
<td>2.0</td>
<td>1.0</td>
<td>2.0</td>
<td>25 (5425)</td>
</tr>
<tr>
<td>MMDS</td>
<td>MBP22R5800S150PC</td>
<td>5800</td>
<td>f₀ ± 75</td>
<td>2.0</td>
<td>1.0</td>
<td>2.0</td>
<td>15 (5425)</td>
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</tbody>
</table>

### Bandpass Duplexer

<table>
<thead>
<tr>
<th>Application</th>
<th>Part Number</th>
<th>Center Freq. (MHz)</th>
<th>Bandwidth (MHz)</th>
<th>I.L. (dB)</th>
<th>Ripple (dB)</th>
<th>VSWR</th>
<th>Attenuation (dB) (MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMPS</td>
<td>MBP48R836/881S25A</td>
<td>Tx 836.5</td>
<td>f₀ ± 12.5</td>
<td>2.5</td>
<td>1.0</td>
<td>2.0</td>
<td>40 (Rx)</td>
</tr>
<tr>
<td>PCS</td>
<td>MBP48R1880/1960S60B</td>
<td>Tx 1880</td>
<td>f₀ ± 30</td>
<td>3.0</td>
<td>2.0</td>
<td>2.0</td>
<td>30 (Rx)</td>
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</tbody>
</table>

- **Please visit our website or contact our technical staff for more applicable specifications**

### ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Filter Type</th>
<th>Resonator Size</th>
<th>Number of Resonators</th>
<th>Frequency</th>
<th>Mount Type</th>
<th>Bandwidth</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBP</td>
<td>3</td>
<td>2R 1575 S 10 A</td>
<td>Unit: mm</td>
<td>S = SMD</td>
<td>Unit: MHz</td>
</tr>
</tbody>
</table>

**BP** = Monolithic block Filter
**TBP** = Thru-Hole Filter
**LBP** = LTCC Filter
**MDPX** = Monolithic Block Duplexer
**DPX** = RF Duplexer

**MBP** = Monolithic
**AMPS** = AMPS
**ISM915** = ISM915
**GSM** = GSM
**GPS** = GPS
**PCS** = PCS
**MMDS** = MMDS
**ISM 2.4GHz** = ISM 2.4GHz
**ISM 5.8GHz** = ISM 5.8GHz

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