**UHF Coaxial Low Pass Harmonic Filters**

**Features**
- High rejection 2nd and 3rd Harmonic
- Extremely Low Insertion Loss and VSWR
- Minimized Length
- Wide Range of Power Levels
- Built-in Couplers Available
- Alternative Connectors Available
- Rugged Construction

ERI high rejection UHF low-pass harmonic filters are designed for transmitter power levels up to 28 kW, average power. Chebyshev design parameters define element values that provide 40 dB or greater rejection at the second harmonic and 30 dB or greater rejection at the third harmonic.

Extremely low pass band insertion loss is achieved through the use of silver plating on the filter inner conductor. Each filter is individually tuned and tested for optimum electrical and mechanical performance. Measured test data is supplied with each filter. Either flanged or unflanged connectors are available on all filter models. ERI directional couplers may also be integrated into any size filter.

**UHF Low Pass Harmonic Filters**

<table>
<thead>
<tr>
<th>Model</th>
<th>Outer Conductor</th>
<th>Input/ Output</th>
<th>Power Rating</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>CF279</td>
<td>CU</td>
<td>1-5/8” Flanged</td>
<td>5 kW</td>
<td>24.00 in</td>
</tr>
<tr>
<td>CF381</td>
<td>CU</td>
<td>3-1/8” Flanged</td>
<td>15 kW</td>
<td>24.00 in</td>
</tr>
<tr>
<td>CF415</td>
<td>CU</td>
<td>4-1/16” Flanged</td>
<td>18 kW</td>
<td>24.00 in</td>
</tr>
<tr>
<td>CF415 w/ Cooling Fins</td>
<td>CU</td>
<td>4-1/16” Flanged</td>
<td>25 kW</td>
<td>24.00 in</td>
</tr>
<tr>
<td>CF415 w/ Forced Air</td>
<td>CU</td>
<td>4-1/16” Flanged</td>
<td>28 kW</td>
<td>24.00 in</td>
</tr>
</tbody>
</table>

**Specifications:**
- Input VSWR: 1.05 : 1 or better over 6 MHz channel
- Insertion Loss: 0.1 dB max over 6 MHz channel
- Rejection: 40 dB min. at 2Fc +/- 6 MHz, 3Fc +/- 9 MHz
- All power ratings listed are average power, ATSC1.0 or COFDM