SMT Data Line EMI Filters DFT4532

- Current-compensated ring core double choke
- Miniature footprint; less than 3.2 mm tall
- Exceptional common mode noise attenuation
- AEC-Q200 Grade 3 (−40°C to +85°C)
- 250 Vrms, one minute isolation (hipot) between windings

### Core material
Ferrite

### Environmental
RoHS compliant

### Terminations
RoHS compliant matte tin over nickel over phos-bronze

### Weight
78 – 86 mg

### Ambient temperature
−40°C to +85°C with Irms current

### Maximum part temperature
+105°C (ambient + temp rise)

### Storage temperature
Component: −40°C to +105°C.
Tape and reel packaging: −40°C to +80°C

### Resistance to soldering heat
Max three 40 second refloows at +260°C, parts cooled to room temperature between cycles

### Moisture Sensitivity
Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

### Packaging
600/7" reel; 2000/13" reel
Plastic tape: 12 mm wide, 0.4 mm thick, 8 mm pocket spacing, 3.43 mm pocket depth

### PCB washing
Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

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<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (kOhms)</th>
<th>Cutoff frequency (MHz)</th>
<th>Inductance (mH)</th>
<th>Test frequency (kHz)</th>
<th>Irms (mA)</th>
<th>DCR (Ohms)</th>
<th>Leakage</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DFT4532-513BL</td>
<td>2.01 @ 61 MHz</td>
<td>670</td>
<td>0.051</td>
<td>100</td>
<td>370</td>
<td>0.250</td>
<td>0.100</td>
<td>5</td>
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<tr>
<td>DFT4532-513SL</td>
<td>1.92 @ 99 MHz</td>
<td>28</td>
<td>0.051</td>
<td>100</td>
<td>370</td>
<td>0.250</td>
<td>1.600</td>
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<tr>
<td>DFT4532-104BL</td>
<td>0.64 @ 9.7 MHz</td>
<td>900</td>
<td>0.100</td>
<td>100</td>
<td>500</td>
<td>0.200</td>
<td>0.070</td>
<td>1</td>
</tr>
<tr>
<td>DFT4532-224BL</td>
<td>1.40 @ 13 MHz</td>
<td>650</td>
<td>0.220</td>
<td>100</td>
<td>400</td>
<td>0.270</td>
<td>0.080</td>
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<tr>
<td>DFT4532-334BL</td>
<td>1.96 @ 9.6 MHz</td>
<td>520</td>
<td>0.330</td>
<td>100</td>
<td>370</td>
<td>0.250</td>
<td>0.100</td>
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<tr>
<td>DFT4532-474BL</td>
<td>3.04 @ 9.6 MHz</td>
<td>490</td>
<td>0.470</td>
<td>100</td>
<td>350</td>
<td>0.320</td>
<td>0.130</td>
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</tr>
</tbody>
</table>

1. When ordering, please specify termination and packaging code:

Termination: L = RoHS compliant matte tin over nickel over phos-bronze

Special order, add cost: S = non-RoHS tin-lead (63/37)

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel), Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge)

D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (2000 parts per full reel).

2. Frequency at which the differential mode attenuation equals 3 dB
3. Inductance is for each winding, measured at test frequency using a Voltech AT3600 or equivalent.
5. DCR is specified per winding.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.
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Attenuation vs Frequency

Differential Mode

Common Mode

Please check the website for the latest information.
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Impedance vs Frequency

Differential Mode

Common Mode