### SMT Data Line EMI Filters – PDLF

- Available in 4, 3 and 2-line versions
- See our CCDLF series for 10 and 8-line EMI filters
- Exceptional common mode noise attenuation from 15 MHz to 300 MHz; passes signal line data below 300 MHz with minimal attenuation
- DC current capacity of 500 or 100 mA.
- Excellent electrical isolation (300 Vrms)

#### Common mode Cutoff

<table>
<thead>
<tr>
<th>Part number</th>
<th>Lines</th>
<th>Common mode peak impedance (kOhms)</th>
<th>Cutoff frequency (GHz)</th>
<th>Inductance min (µH)</th>
<th>DCR max (mOhms)</th>
<th>Isolation (Vrms)</th>
<th>Current (mAdc)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDLF4000L__</td>
<td>4</td>
<td>0.949 @ 210 MHz</td>
<td>1.1</td>
<td>5.0</td>
<td>250</td>
<td>300</td>
<td>100</td>
</tr>
<tr>
<td>PDLF4500L__</td>
<td>4</td>
<td>0.848 @ 200 MHz</td>
<td>0.88</td>
<td>5.0</td>
<td>200</td>
<td>300</td>
<td>500</td>
</tr>
<tr>
<td>PDLF3000L__</td>
<td>3</td>
<td>0.901 @ 280 MHz</td>
<td>1.4</td>
<td>5.0</td>
<td>250</td>
<td>300</td>
<td>100</td>
</tr>
<tr>
<td>PDLF3500L__</td>
<td>3</td>
<td>0.910 @ 210 MHz</td>
<td>1.1</td>
<td>5.0</td>
<td>200</td>
<td>300</td>
<td>500</td>
</tr>
<tr>
<td>PDLF2000L__</td>
<td>2</td>
<td>0.958 @ 280 MHz</td>
<td>1.3</td>
<td>5.0</td>
<td>250</td>
<td>300</td>
<td>100</td>
</tr>
<tr>
<td>PDLF2500L__</td>
<td>2</td>
<td>0.929 @ 250 MHz</td>
<td>1.2</td>
<td>5.0</td>
<td>200</td>
<td>300</td>
<td>500</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

   - PDLF4500L C
   - PDLF3000L D
   - PDLF2000L B

2. Frequency at which the differential mode attenuation equals −3 dB
3. Inductance shown for each winding, measured at 1 MHz
4. DCR is for each winding.
5. Intervinding isolation (hipot) tested for one minute.
6. Current rating is for each line.
7. Electrical specifications at 25°C.

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

### Designer’s Kit D303

- Contains four each of all values plus DLF and CCDLF filters
- Core material: Ferrite
- Terminations: RoHS compliant tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.
- Weight: 183 – 201 mg
- Ambient temperature: −40°C to +85°C
- Storage temperature: Component: −40°C to +85°C. Tape and reel packaging: −40°C to +80°C
- Resistance to soldering heat: Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles
- Moisture Sensitivity Level (MSL): 1 (unlimited floor life at <30°C / 85% relative humidity)
- Mean Time Between Failures (MTBF): 26,315,789 hours
- Packaging: 500/7” reel; 2000/13” reel. Plastic tape: 16 mm wide, 0.35 mm thick, 8 mm pocket spacing, 4.4 mm pocket depth

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PDLF Surface Mount Data Line EMI Filters

Dot indicates pin 1

0.217 ±0.006
5.50 ±0.15

0.138 ±0.008
3.50 ±0.20

0.317 ±0.012
8.05 ±0.30

0.020
0.50

0.012
0.30

0.098
2.50

* Dimensions are typical prior to applying solder

Dimensions are in inches

** Inches

Typical Response*

Typical Impedance

* Measured on HP 8753D network analyzer. Ref: 50 Ohms.