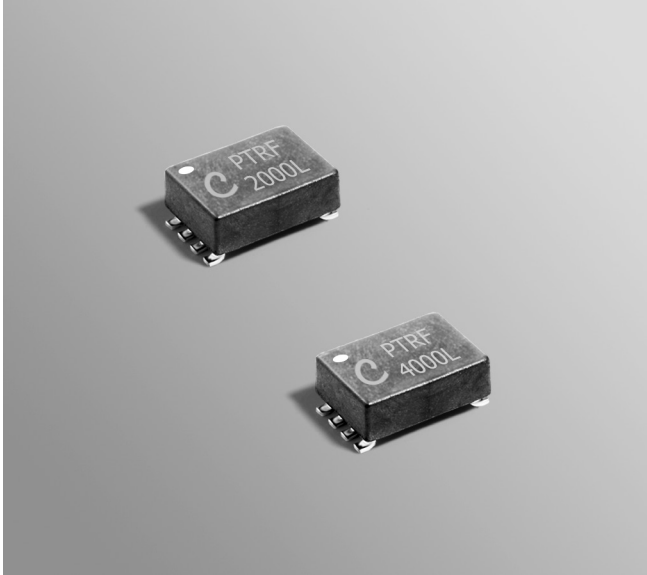




Surface Mount Tip and Ring Filters



These surface mount tip and ring filters provide substantial reduction of noise throughout an extended frequency range. Their economical design makes them attractive for a wide variety of applications.

Free evaluation samples are available by contacting Coilcraft or ordering them on-line at www.coilcraft.com.

Core material Ferrite

Terminations RoHS tin-silver-copper over tin over nickel over phos bronze

Weight 214 – 216 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)

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

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

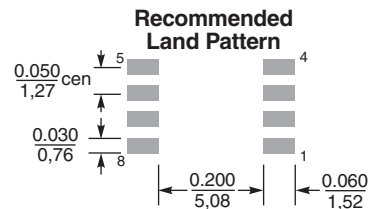
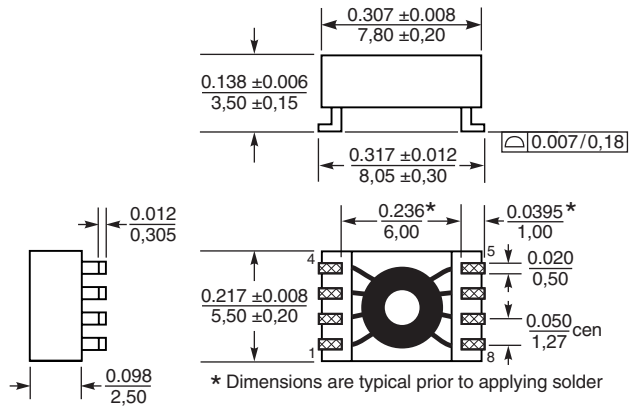
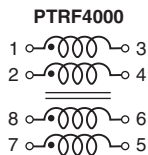
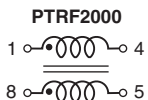
| Part number ¹ | Lines | Common mode peak impedance (kOhms) | Cutoff frequency ² (MHz) | Inductance min (µH) ³ | DCR max ⁴ (Ohms) | Isolation ⁵ (Vrms) | Current ⁶ (mA dc) |
|--------------------------|-------|------------------------------------|-------------------------------------|----------------------------------|-----------------------------|-------------------------------|------------------------------|
| PTRF2000L_ | 1 | 0.814 @ 11 MHz | 38 | 35 | 0.075 | 1500 | 500 |
| PTRF4000L_ | 2 | 0.851 @ 12 MHz | 41 | 35 | 0.135 | 1500 | 500 |

1. When ordering, please specify **packaging** code:

PTRF4000LC

- Packaging:**
- C** = 7" machine ready reel. EIA-481 embossed plastic tape, 500 parts per full reel.
 - B** = Less than full reel. In tape, but not machine ready. To have a leader and trailer added (\$25 charge), use code letter C instead.
 - 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 shown for each winding, measured at 130 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4284A LCR meter or equivalent.
 - 4 DCR is for each winding.
 - 5 Interwinding isolation (hipot) tested for one minute.
 - 6 Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



Dimensions are in $\frac{\text{inches}}{\text{mm}}$