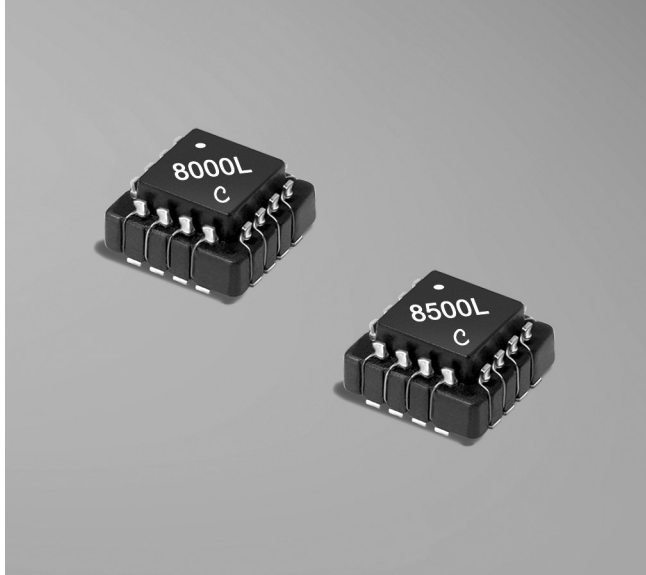


SMT Data Line EMI Filters – CDF



- See our PDLF series for 4, 3 and 2-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

Core material Ferrite

Terminations RoHS compliant tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.

Weight 330 – 345 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 1000/13" reel Plastic tape: 16 mm wide, 0.46 mm thick, 12 mm pocket spacing, 4.5 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 (GHz)	Inductance min (μH) ³	DCR max ⁴ (mOhms)	Isolation ⁵ (Vrms)	Current ⁶ (mA _{dc})
CDF8000L_	8	0.63 @ 37 MHz	0.053	5.0	250	300	100
CDF8500L_	8	0.52 @ 42 MHz	0.053	5.0	180	300	500

1. When ordering, please specify **termination** and **packaging** codes:

CDF 8500LD

Termination L = RoHS compliant tin-silver-copper over tin over nickel over phos bronze. Other terminations available at additional cost.

Special order: S = non-RoHS tin-lead (63/37).

Packaging D = 13" machine ready reel. EIA-481 embossed plastic tape (1000 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 D instead.

2. Frequency at which the differential mode attenuation equals –3 dB

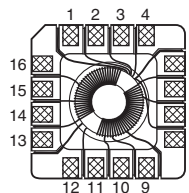
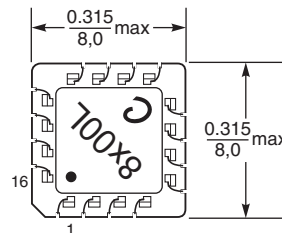
3. Inductance shown for each winding, measured at 1 MHz

4. DCR is for each winding.

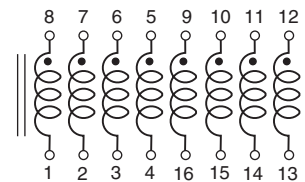
5. Interwinding isolation (hipot) tested for one minute.

6. Current rating is for each line.

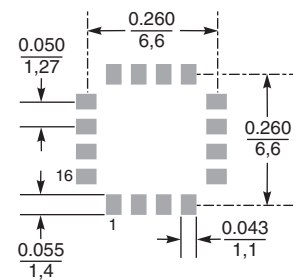
Refer to Doc 362 "Soldering Surface Mount Components" before soldering.



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



Note: Location of the wire slots for parts manufactured prior to August 2017 may be different.



Recommended Land Pattern



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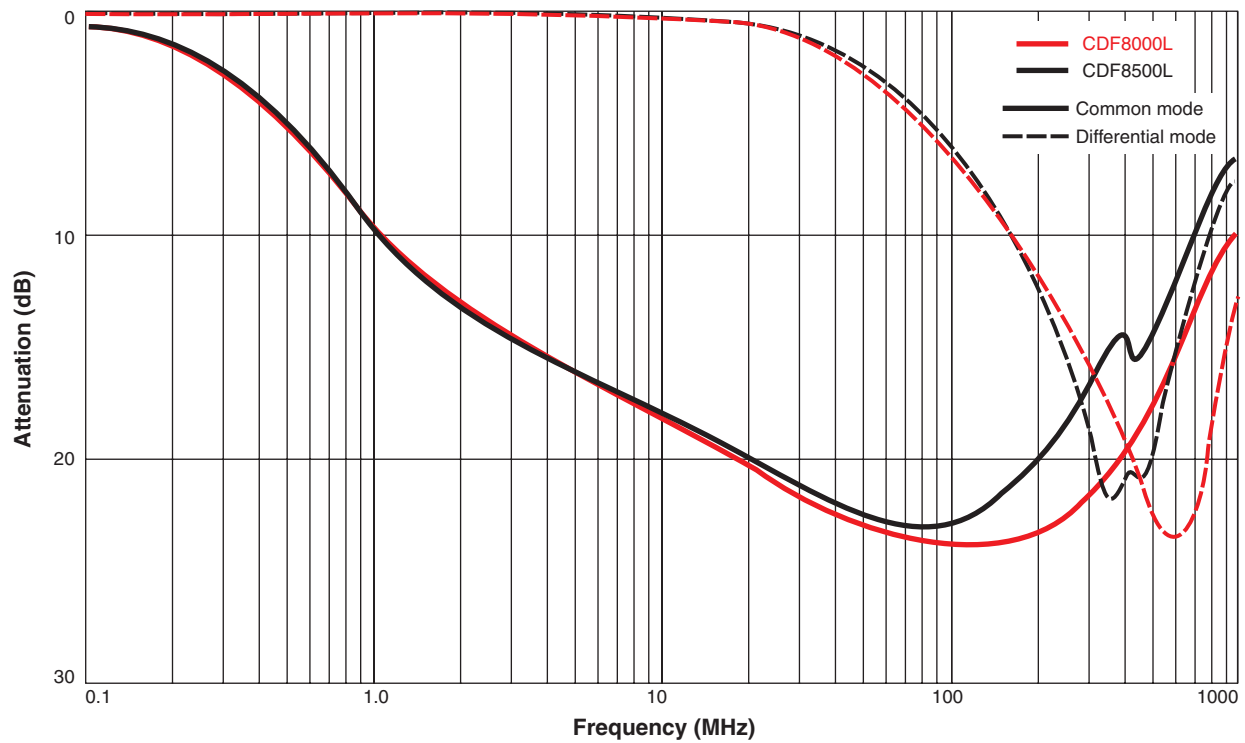
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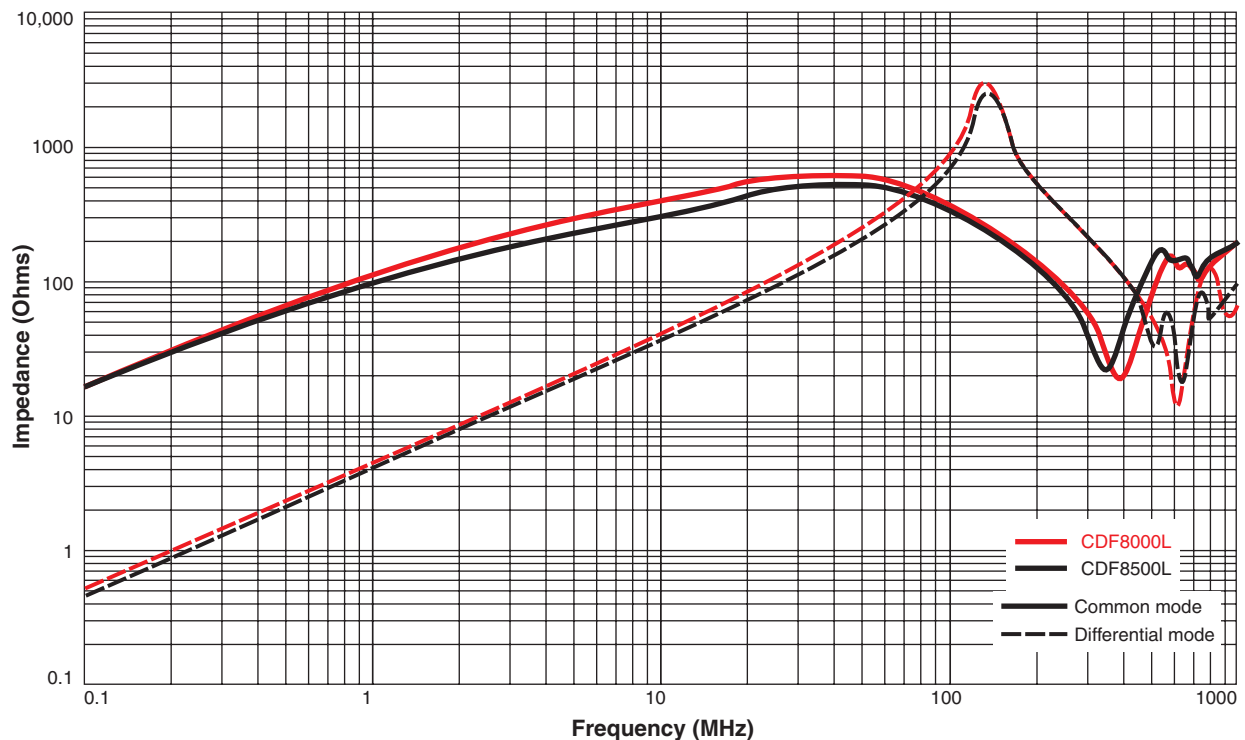


CDF8x00 Surface Mount Data Line EMI Filters

Attenuation (Ref: 50 Ohms)



Impedance vs Frequency



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