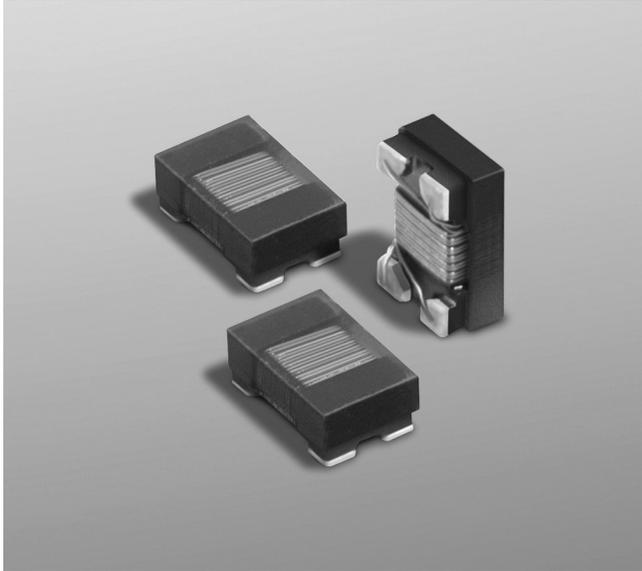


NEW!

Low Profile USB Common Mode Choke 0805



- For noise suppression in super high speed signal lines: USB 3.x, HDMI 2.0, HDBaseT™, DisplayPort, DVI, etc.; and in high speed differential signal lines: USB 2.0, IEEE1394, LVDS, etc.
- Suitable for USB-type C specification 1.0
- Up to 6 GHz differential mode 3 dB cutoff frequency; up to 30 dB common mode noise attenuation in GHz range

Core material Ferrite**Environmental** RoHS compliant**Terminations** Matte tin over nickel over silver-platinum-glass frit.**Weight** 14.7 – 15.5 mg**Ambient temperature** –40°C to +125°C with Irms current.**Maximum part temperature** 140°C**Storage temperature** Component: –40°C to +140°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)**Failures in Time (FIT) / Mean Time Between Failures (MTBF)**

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332

Packaging 2000/7" reel; 7500/13" reel; Plastic tape: 8 mm wide, 0.23 mm thick, 4 mm pocket spacing, 1.295 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	Common mode impedance typ (Ohms)			Common mode attenuation typ (dB)			Inductance ² min (nH)	DCR max ³ (Ohms)	Isolation (Vrms)	Irms ⁴ (mA)
	10 MHz	100 MHz	500 MHz	10 MHz	100 MHz	500 MHz				
0805USBF-421MR_	10	40	65	0.5	4.6	6.9	28	0.11	250	500
0805USBF-901MR_	25	95	140	2.1	9.1	11.8	60	0.14	250	500
0805USBF-172MR_	35	165	255	4.0	12.8	15.7	101	0.22	250	500
0805USBF-262MR_	55	250	400	5.7	15.4	18.5	165	0.235	250	500
0805USBF-372MR_	105	400	580	5.8	18.1	22.3	241	0.27	250	500
0805USBF-502MR_	145	545	800	11.2	21.6	25.2	315	0.32	250	500
0805USBF-672MR_	160	670	1090	11.3	23.3	27.7	434	0.37	250	450
0805USBF-902MR_	200	900	1400	12.6	25.4	30.0	560	0.63	250	350

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

0805USBF-902MRC

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (2000 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 (7500 parts per full reel).

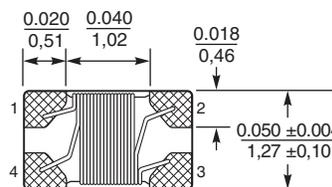
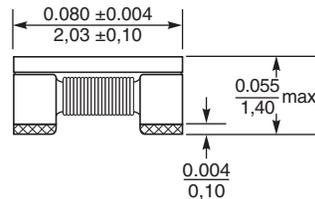
2. Inductance measured at 100 MHz using an Agilent/HP 4286A impedance analyzer and a Coilcraft SMD-A fixture.

3. DCR is specified per winding.

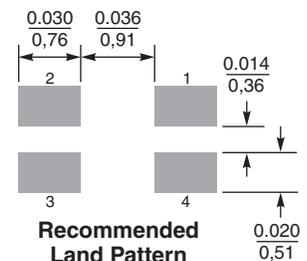
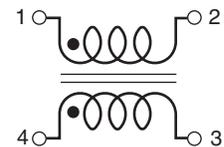
4. Current that causes a 15°C temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

5. Electrical specifications at 25°C.

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



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

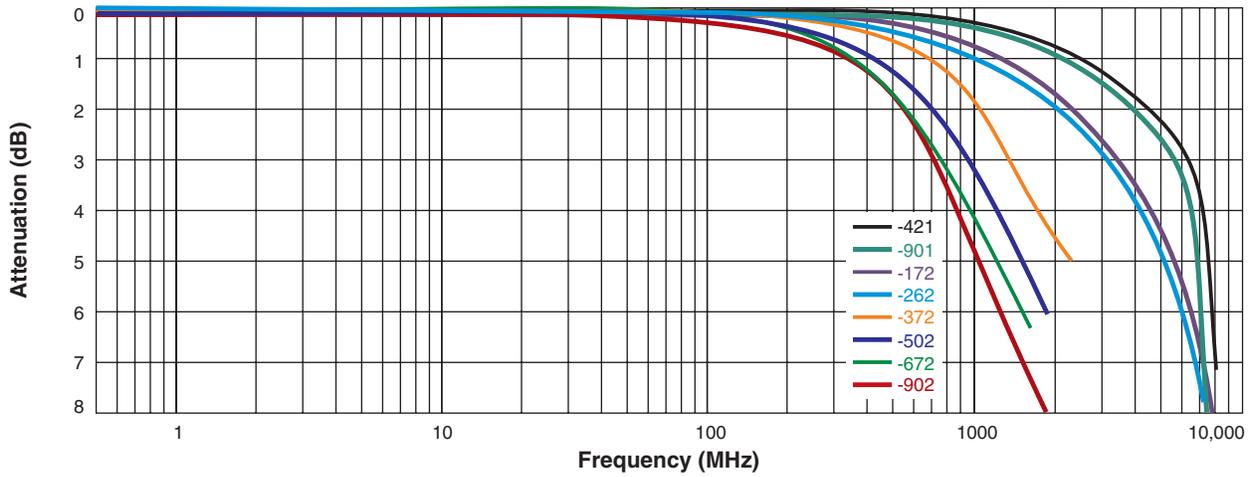


Recommended Land Pattern

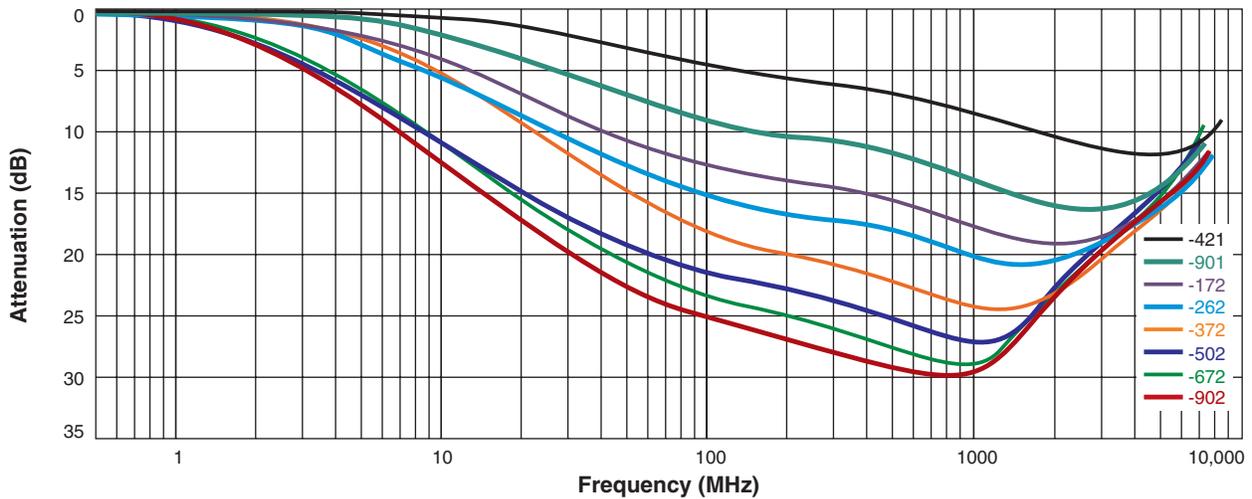
NEW!

USB 2.0, 3.x Common Mode Filter – 0805USBF

Typical Differential Mode Attenuation (Ref: 50 Ohms)



Typical Common Mode Attenuation (Ref: 50 Ohms)



Typical Impedance vs Frequency

