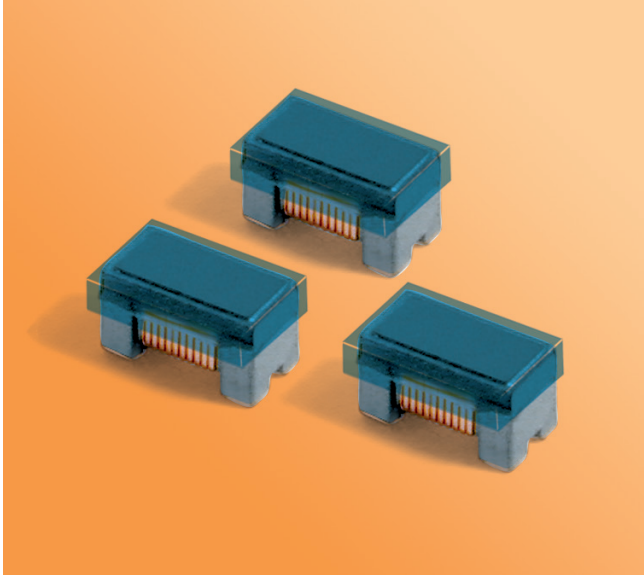


NEW!

Common Mode Chokes for Critical Applications



- For common mode noise suppression in high speed differential signal lines: USB2.0, IEEE1394, LVDS, etc.
- Up to 2.7 GHz differential mode 3 dB cutoff frequency
- Up to 2.24 kOhms common mode peak impedance and 40 dB common mode noise attenuation

Core material Ferrite

Terminations Gold over nickel over silver-palladium-glass frit. Other terminations available at additional cost.

Weight 36.2 – 37.6 mg

Ambient temperature -40°C to +85°C with Irms current

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

Storage temperature Component: -55°C to +105°C.
Tape and reel packaging: -55°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 2000/7" reel; Plastic tape: 8 mm wide, 0.3 mm thick, 4 mm pocket spacing, 1.9 mm pocket depth

Part number ¹	Common mode peak impedance (kOhms)	Cutoff frequency ² (GHz)	Common mode attenuation typ (dB)			Inductance ³ min (nH)	DCR max ⁴ (Ohms)	Isolation ⁵ (Vrms)	Irms ⁶ (mA)
			10 MHz	100 MHz	500 MHz				
CP376FRA371MAZ	>0.21 @ >3.0 GHz	2.7	1.19	4.83	8.13	31	0.10	250	500
CP376FRA102MAZ	0.36 @ 1.9 GHz	2.2	3.81	8.97	13.32	66	0.14	250	500
CP376FRA172MAZ	0.55 @ 1.5 GHz	2.1	5.02	12.43	17.95	107	0.18	250	500
CP376FRA262MAZ	0.76 @ 1.1 GHz	2.0	6.11	15.33	21.02	161	0.22	250	500
CP376FRA372MAZ	1.11 @ 1.1 GHz	1.2	9.10	18.49	24.36	226	0.26	250	500
CP376FRA532MAZ	1.45 @ 0.93 GHz	0.78	10.93	21.39	26.25	319	0.30	250	500
CP376FRA672MAZ	1.67 @ 0.81 GHz	0.75	13.86	23.38	28.04	412	0.34	250	500
CP376FRA872MAZ	1.99 @ 0.72 GHz	0.53	16.29	25.30	29.41	510	0.39	250	400
CP376FRA113MAZ	2.24 @ 0.66 GHz	0.51	16.93	27.13	30.01	623	0.44	250	400
CP376FRA223MAZ	3.36 @ 0.34 GHz	0.22	22.38	33.12	32.32	1040	0.85	250	100

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

CP376FRA223MAZ

Termination: A = Gold over nickel over silver-palladium-glass frit

Special order:

C = Tin-lead over gold over nickel over silver-palladium-glass frit

F = Tin-silver-copper over gold over nickel over silver-palladium-glass frit

Screening: Z = Unscreened

H = Group A screening per Coilcraft CP-SA-10001

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

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

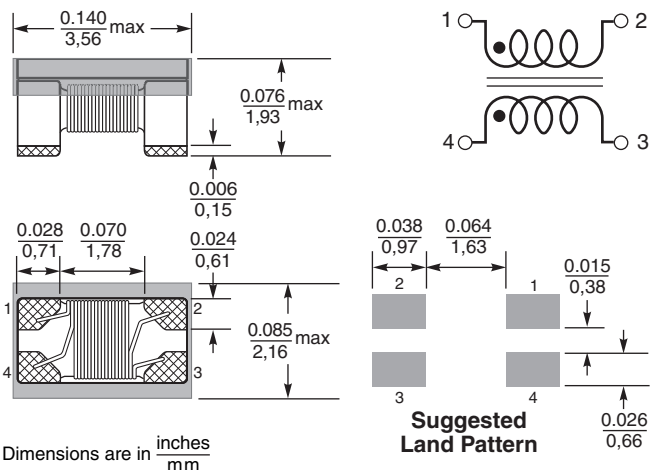
4. DCR is specified per winding.

5. Winding to winding isolation (hipot) tested for one minute.

6. Current per winding that causes a 20°C rise from 25°C ambient.

7. Electrical specifications at 25°C.

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



Coilcraft CPS
CRITICAL PRODUCTS & SERVICES

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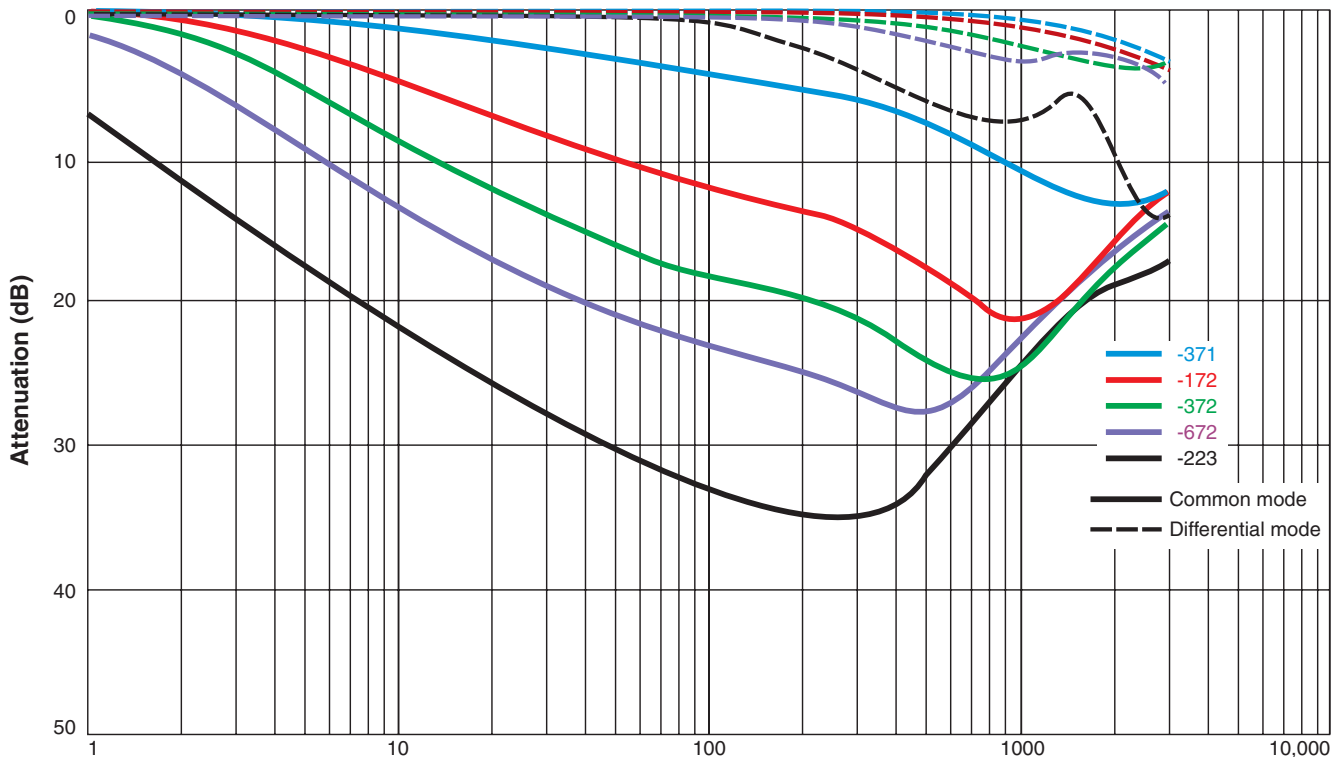
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Email cps@coilcraft.com
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Document CP386-1 Revised 7/18/23

This product may not be used in medical or high risk applications without prior Coilcraft approval. Specifications subject to change without notice. Please check our web site for latest information.

Common Mode Chokes for Critical Applications – CP376FRA

Typical Attenuation (Ref: 50 Ohms)



Typical Impedance vs Frequency

