

NEW!

SMT Common Mode Chokes

for power line applications



- Solutions for use in a wide array of power line circuits
- Ideal for use in automotive, consumer electronics and industrial applications
- Suppression of high frequency common mode noise up to 100 MHz
- Excellent current ratings – up to 8.2 A
- High Isolation voltage (hipot) 1500 Vrms
- Surface mount toroids
- AEC-Q200 qualified



Part number	Common mode peak impedance (kOhms)	Inductance (mH)		I _{rms} (A)	DCR max (mOhms)	Isolation (Vrms)	Length max (mm)	Width max (mm)	Height max (mm)	Page
		min	nom							
CMA1305-474LD	2.0 @ 2.6 MHz	0.31	0.47	2.5	45.6	1500	13	13	5.6	2
CMA1305-105LD	4.1 @ 2.5 MHz	0.65	1.0	2.1	86.0	1500	13	13	5.6	2
CMA1305-225LD	8.1 @ 2.1 MHz	1.43	2.2	1.2	208.0	1500	13	13	5.6	2
CMA1609-474LD	1.9 @ 2.6 MHz	0.31	0.47	4.3	19.4	1500	16.38	14.22	8.9	3
CMA1609-105LD	3.7 @ 2.4 MHz	0.65	1.0	2.6	49.0	1500	16.38	14.22	8.9	3
CMA1609-225LD	8.5 @ 1.8 MHz	1.43	2.2	1.4	143.2	1500	16.38	14.22	8.9	3
CMA1910-474LD	1.9 @ 2.0 MHz	0.31	0.47	6.0	13.7	1500	19.56	17.75	9.9	4
CMA1910-105LD	3.6 @ 1.8 MHz	0.65	1.0	4.0	29.0	1500	19.56	17.75	9.9	4
CMA1910-225LD	7.7 @ 1.6 MHz	1.43	2.2	2.3	80.0	1500	19.56	17.75	9.9	4
CMA3113-474LD	1.2 @ 1.1 MHz	0.31	0.47	8.2	8.7	1500	31	26	13	5
CMA3113-105LD	2.5 @ 1.0 MHz	0.65	1.0	6.6	14.0	1500	31	26	13	5
CMA3113-225LD	5.7 @ 0.9 MHz	1.43	2.2	3.7	39.8	1500	31	26	13	5


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Common Mode Choke – CMA1305

Part number ¹	Common mode impedance max (kOhms)	Inductance (mH) ²		I _{rms} ³ (A)	DCR max ⁴ (mOhms)	Isolation ⁵ (Vrms)
		min	nom			
CMA1305-474LD	2.0 @ 2.6 MHz	0.31	0.47	2.5	45.6	1500
CMA1305-105LD	4.1 @ 2.5 MHz	0.65	1.0	2.1	86.0	1500
CMA1305-225LD	8.1 @ 2.1 MHz	1.43	2.2	1.2	208.0	1500

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
 - Current through both windings connected in series that causes a 40°C rise from 25°C. At 125°C, I_{rms} shall be derated by 30%. This information is for reference only and does not represent absolute maximum ratings.
 - DCR is specified per winding.
 - Isolation (hipot) measured for 1 minute.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ferrite

Terminations RoHS compliant tin-silver-copper over copper

Weight 1.5 g

Ambient temperature -40°C to +125°C with I_{rms} current

Maximum part temperature +155°C (ambient + temp rise)

Storage temperature Component: -40°C to +155°C.

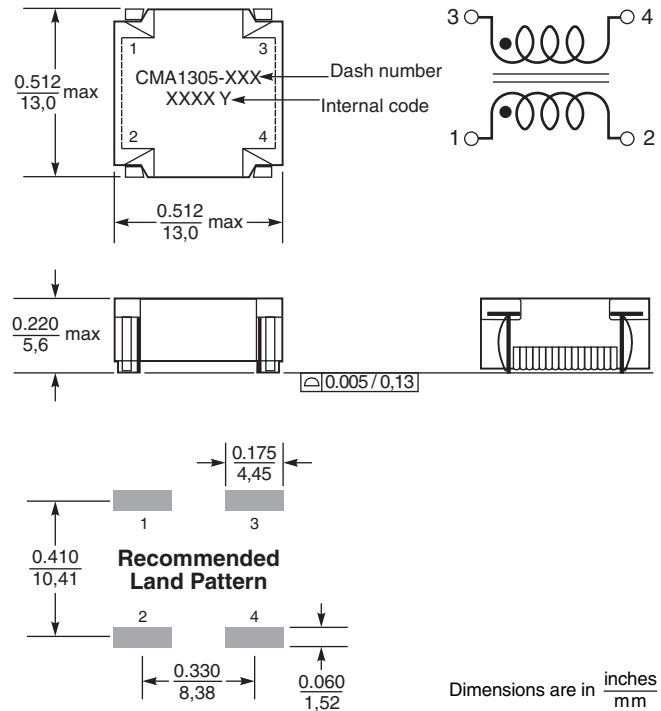
Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

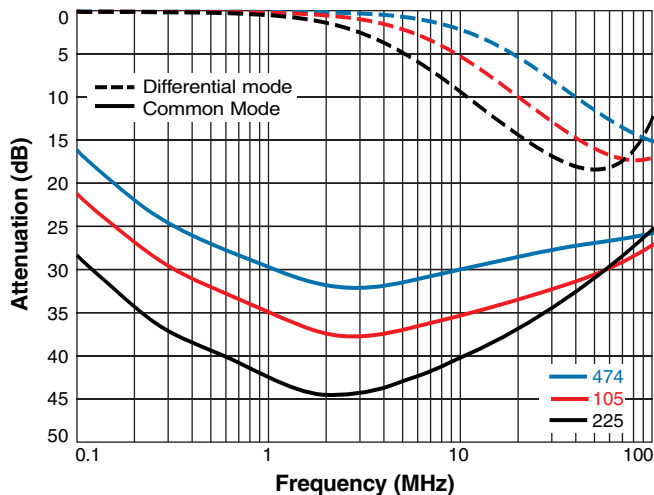
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 600/13" reel Plastic tape: 24 mm wide, 0.4 mm thick, 16 mm pocket spacing, 5.5 mm pocket depth

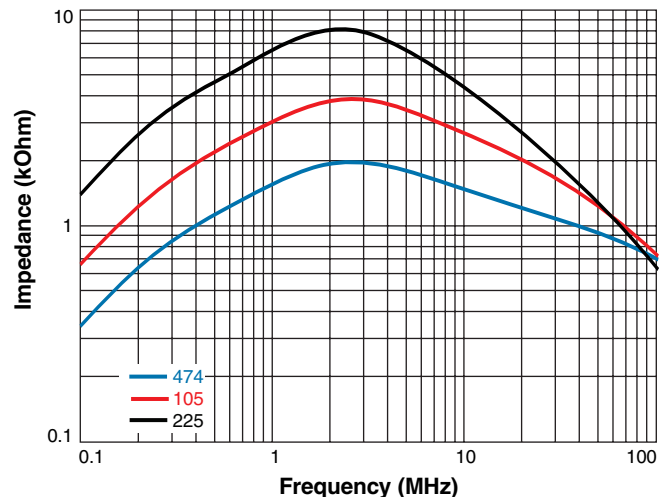
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).



Typical Attenuation



Impedance versus Frequency





Common Mode Choke – CMA1609

Part number ¹	Common mode impedance max (kOhms)	Inductance (mH) ²		Irms ³ (A)	DCR max ⁴ (mOhms)	Isolation ⁵ (Vrms)
		min	nom			
CMA1609-474LD	1.9 @ 2.6 MHz	0.31	0.47	4.3	19.4	1500
CMA1609-105LD	3.7 @ 2.4 MHz	0.65	1.0	2.6	49.0	1500
CMA1609-225LD	8.5 @ 1.8 MHz	1.43	2.2	1.4	143.2	1500

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
 - Current through both windings connected in series that causes a 40°C rise from 25°C. At 125°C, Irms shall be derated by 30%. This information is for reference only and does not represent absolute maximum ratings.
 - DCR is specified per winding.
 - Isolation (hipot) measured for 1 minute.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ferrite

Terminations RoHS compliant tin-silver-copper over copper

Weight 2.3 g

Ambient temperature -40°C to +125°C with Irms current

Maximum part temperature +155°C (ambient + temp rise)

Storage temperature Component: -40°C to +155°C.

Tape and reel packaging: -40°C to +80°C

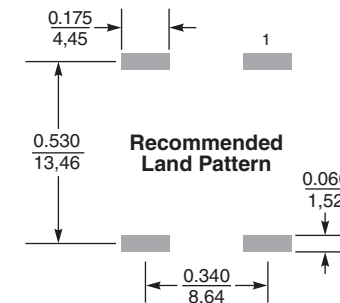
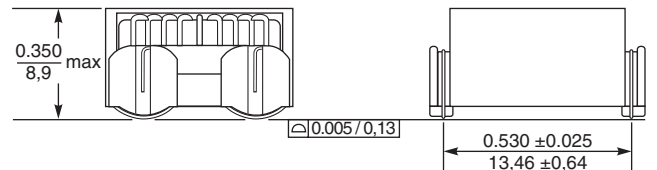
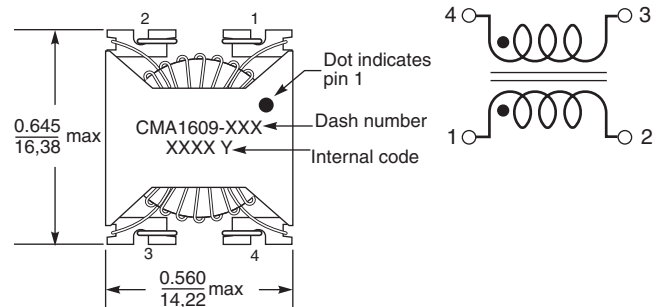
Resistance to soldering heat Max three 40 second reflows at

+260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

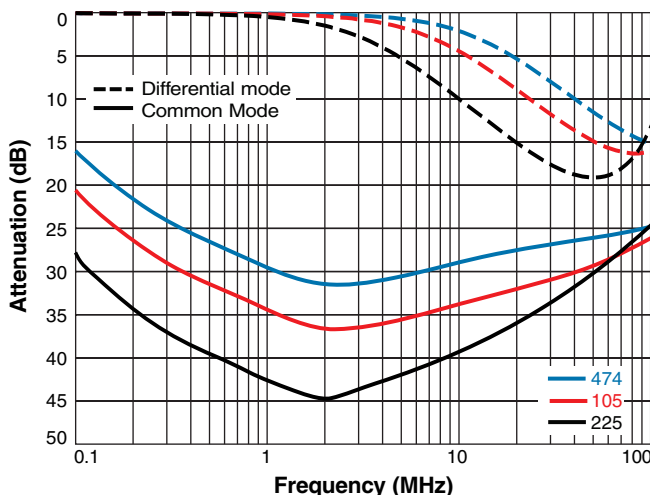
Packaging 350/13" reel Plastic tape: 24 mm wide, 0.5 mm thick, 20 mm pocket spacing, 9.10 mm pocket depth

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

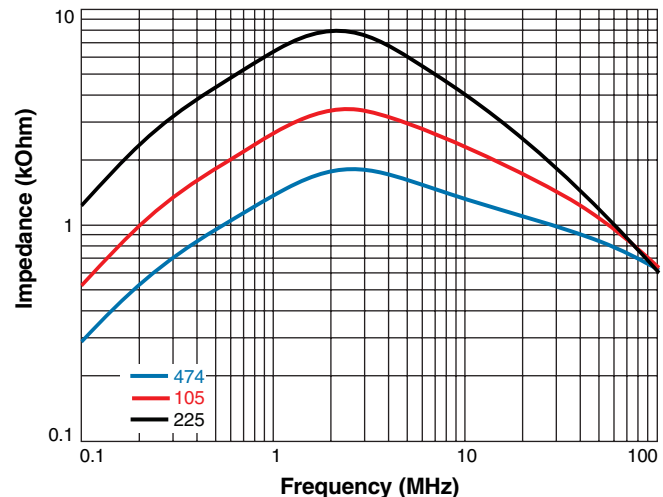


Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Typical Attenuation



Impedance versus Frequency



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Common Mode Choke – CMA1910

Part number ¹	Common mode impedance max (kOhms)	Inductance (mH) ²		I _{rms} ³ (A)	DCR max ⁴ (mOhms)	Isolation ⁵ (Vrms)
		min	nom			
CMA1910-474LD	1.9 @ 2.0 MHz	0.31	0.47	6.0	13.7	1500
CMA1910-105LD	3.6 @ 1.8 MHz	0.65	1.0	4.0	29.0	1500
CMA1910-225LD	7.7 @ 1.6 MHz	1.43	2.2	2.3	80.0	1500

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 A_{dc} on an Agilent/HP 4263B LCR meter or equivalent.
 - Current through both windings connected in series that causes a 40°C rise from 25°C. At 125°C, I_{rms} shall be derated by 30%. This information is for reference only and does not represent absolute maximum ratings.
 - DCR is specified per winding.
 - Isolation (hipot) measured for 1 minute.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ferrite

Terminations RoHS compliant tin-silver-copper over copper

Weight 4.2 g

Ambient temperature -40°C to +125°C with I_{rms} current

Maximum part temperature +155°C (ambient + temp rise)

Storage temperature Component: -40°C to +155°C.

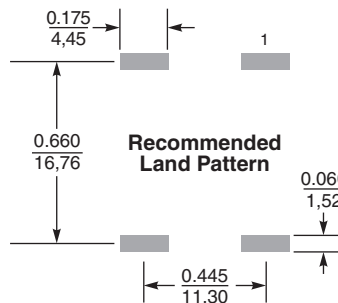
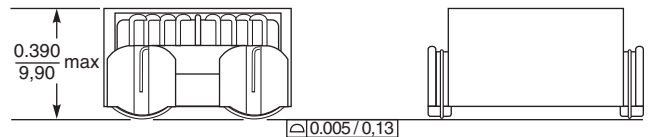
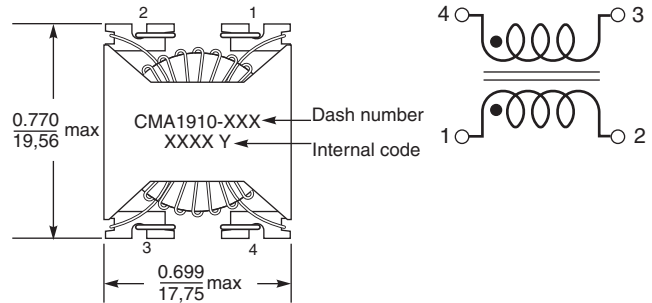
Tape and reel packaging: -40°C to +80°C

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)

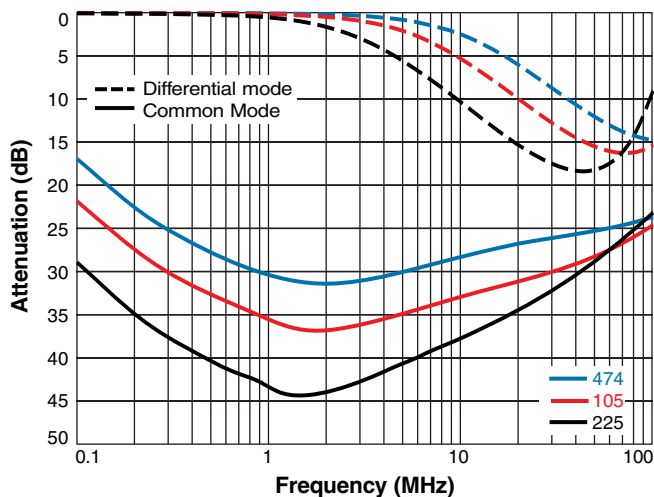
Packaging 250/13" reel Plastic tape: 32 mm wide, 0.5 mm thick, 24 mm pocket spacing, 10.1 mm pocket depth

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

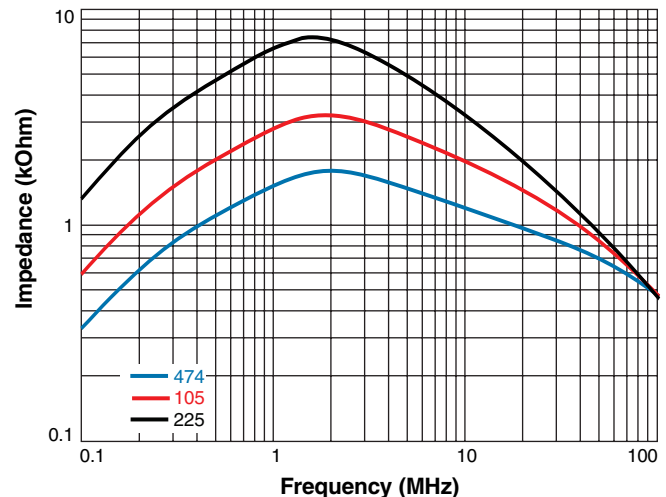


Dimensions are in $\frac{\text{inches}}{\text{mm}}$

Typical Attenuation



Impedance versus Frequency



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Common Mode Choke – CMA3113

Part number ¹	Common mode impedance max (kOhms)	Inductance (mH) ²		Irms ³ (A)	DCR max ⁴ (mOhms)	Isolation ⁵ (Vrms)
		min	nom			
CMA3113-474LD	1.2 @ 1.1 MHz	0.31	0.47	8.2	8.7	1500
CMA3113-105LD	2.5 @ 1.0 MHz	0.65	1.0	6.6	14.0	1500
CMA3113-225LD	5.7 @ 0.9 MHz	1.43	2.2	3.7	39.8	1500

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (120 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
 - Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
 - Current through both windings connected in series that causes a 40°C rise from 25°C. At 125°C, Irms shall be derated by 30%. This information is for reference only and does not represent absolute maximum ratings.
 - DCR is specified per winding.
 - Isolation (hipot) measured for 1 minute.
 - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

Core material Ferrite

Terminations RoHS compliant tin-silver-copper over copper

Weight 12.5 g

Ambient temperature -40°C to +125°C with Irms current

Maximum part temperature +155°C (ambient + temp rise)

Storage temperature Component: -40°C to +155°C.

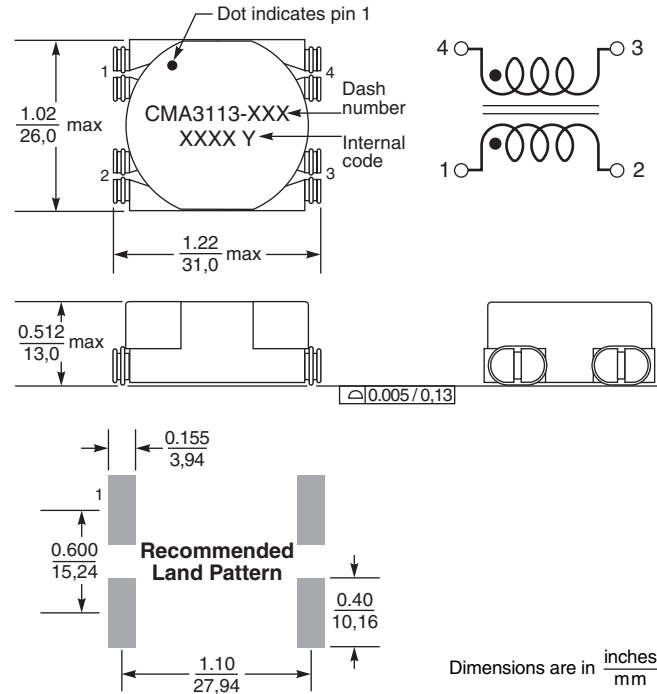
Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

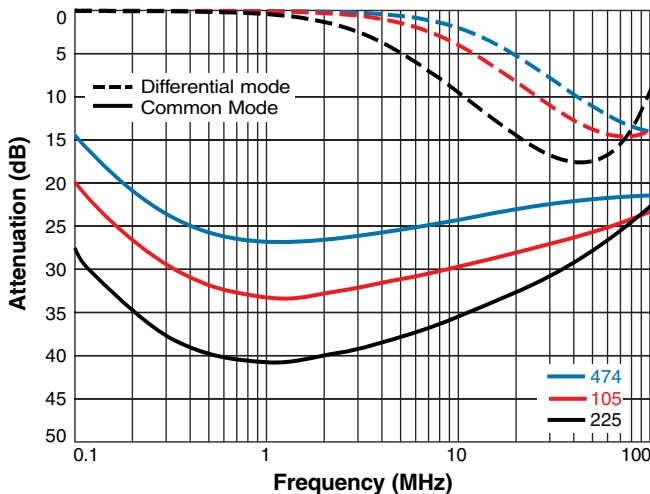
Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Packaging 120/13" reel Plastic tape: 44 mm wide, 0.5 mm thick, 40 mm pocket spacing, 12.4 mm pocket depth

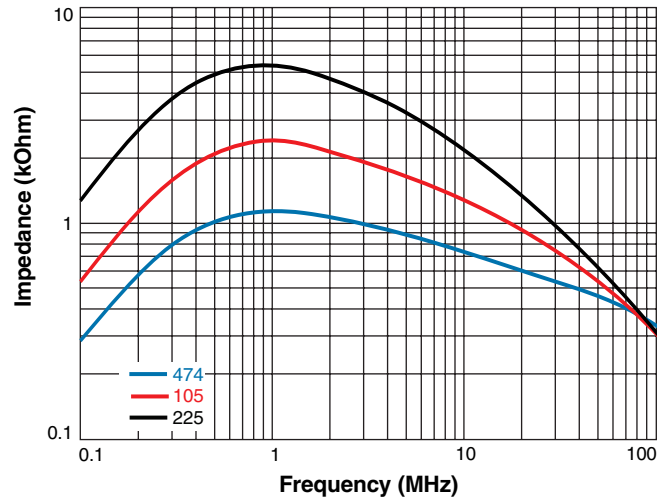
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See [Doc787_PCB_Washing.pdf](#).



Typical Attenuation



Impedance versus Frequency



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