NEW!

# SMT Common Mode Chokes for power line applications

RoHS/ REACH COMPLIANT

AEC Q200 +125°C

- 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) min | Inductance (mH) nom | Irms (A) | DCR max (mOhms) | Isolation (Vrms) | Length max (mm) | Width max (mm) | Height max (mm) | Page |
|---|---|---|---|---|---|---|---|---|---|---|
| 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 |

Coilcraft®
www.coilcraft.com

**US** +1-847-639-6400 sales@coilcraft.com
**UK** +44-1236-730595 sales@coilcraft-europe.com
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw
**China** +86-21-6218 8074 sales@coilcraft.com.cn
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

Document 1832-1 Revised 01/16/26

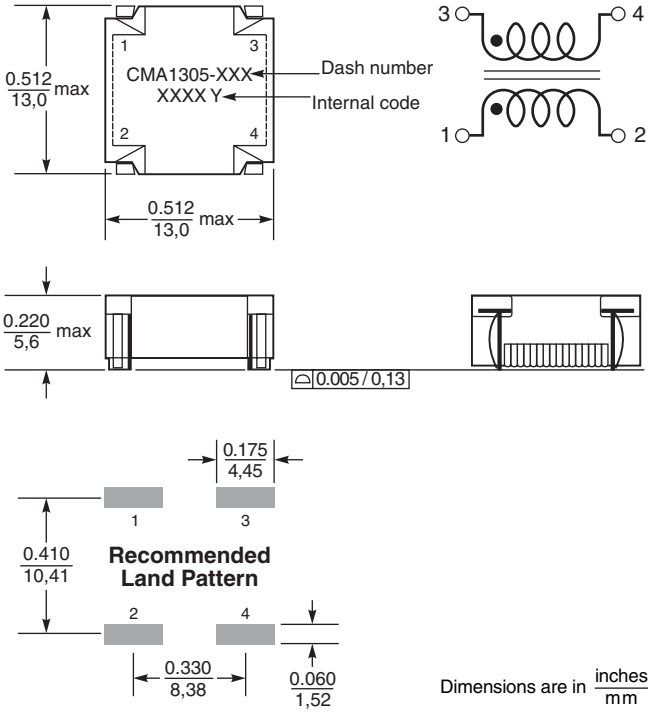
# Common Mode Choke – CMA1305

| Part number[1] | Common mode impedance max (kOhms) | Inductance (mH)[2] min | Inductance (mH)[2] nom | Irms[3] (A) | DCR max[4] (mOhms) | Isolation[5] (Vrms) |
|---|---|---|---|---|---|---|
| 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 |

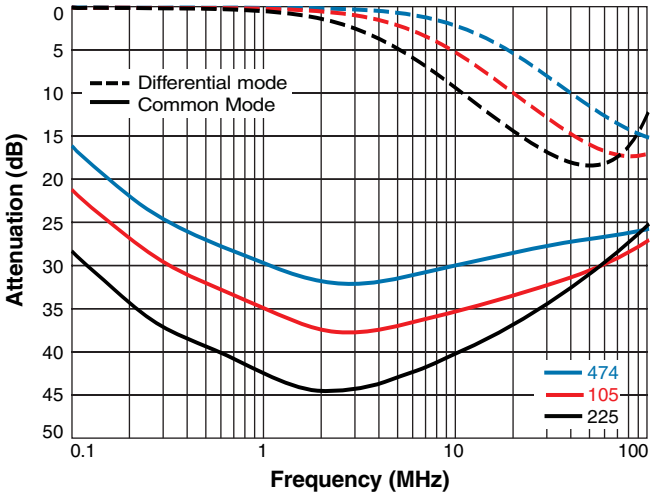
1. **Packaging: D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (600 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
2. Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
3. 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.
4. DCR is specified per winding.
5. Isolation (hipot) measured for 1 minute.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

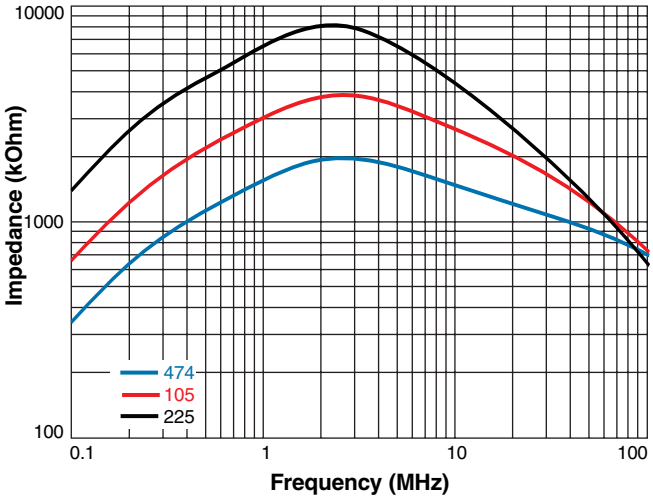
**Core material** Ferrite
**Terminations** RoHS compliant tin-silver-copper over copper
**Weight** 1.5 g
**Ambient temperature** –40°C to +125°C with Irms current
**Maximum part temperature** +155°C (ambient + temp rise)
**Storage temperature** Component: –40°C to +155°C.
Tape and reel packaging: –40°C 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** 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




Coilcraft
www.coilcraft.com

**US** +1-847-639-6400 sales@coilcraft.com
**UK** +44-1236-730595 sales@coilcraft-europe.com
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw
**China** +86-21-6218 8074 sales@coilcraft.com.cn
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

Document 1832-2 Revised 01/16/26

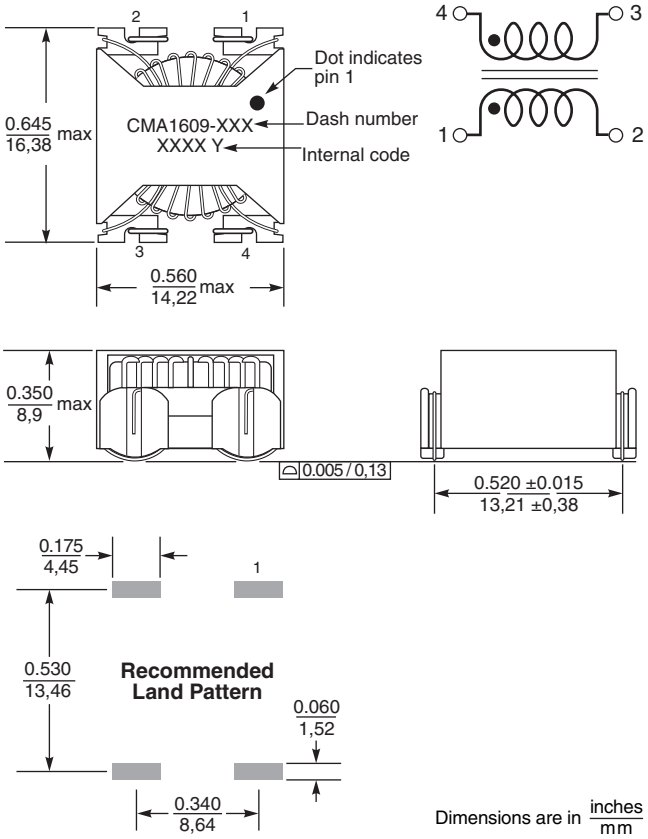
# Common Mode Choke – CMA1609

| Part number[1] | Common mode impedance max (kOhms) | Inductance (mH)[2] min | Inductance (mH)[2] nom | Irms[3] (A) | DCR max[4] (mOhms) | Isolation[5] (Vrms) |
|---|---|---|---|---|---|---|
| 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 |

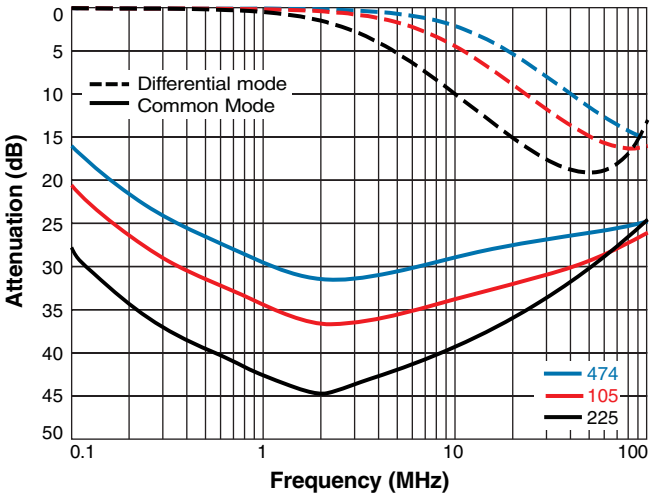
1. **Packaging: D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (350 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
2. Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
3. 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.
4. DCR is specified per winding.
5. Isolation (hipot) measured for 1 minute.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

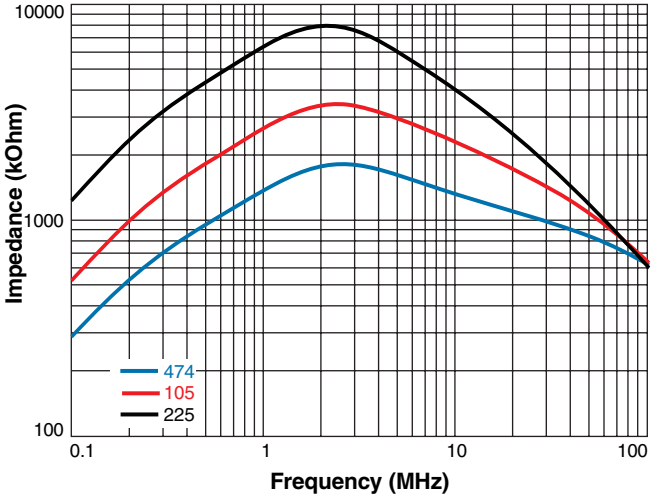
**Core material** Ferrite
**Terminations** RoHS compliant tin-silver-copper over copper
**Weight** 2.3 g
**Ambient temperature** –40°C to +125°C with Irms current
**Maximum part temperature** +155°C (ambient + temp rise)
**Storage temperature** Component: –40°C to +155°C.
Tape and reel packaging: –40°C 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.




## Typical Attenuation




## Impedance versus Frequency




Coilcraft
www.coilcraft.com

**US** +1-847-639-6400 sales@coilcraft.com
**UK** +44-1236-730595 sales@coilcraft-europe.com
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw
**China** +86-21-6218 8074 sales@coilcraft.com.cn
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

Document 1832-3 Revised 01/16/26

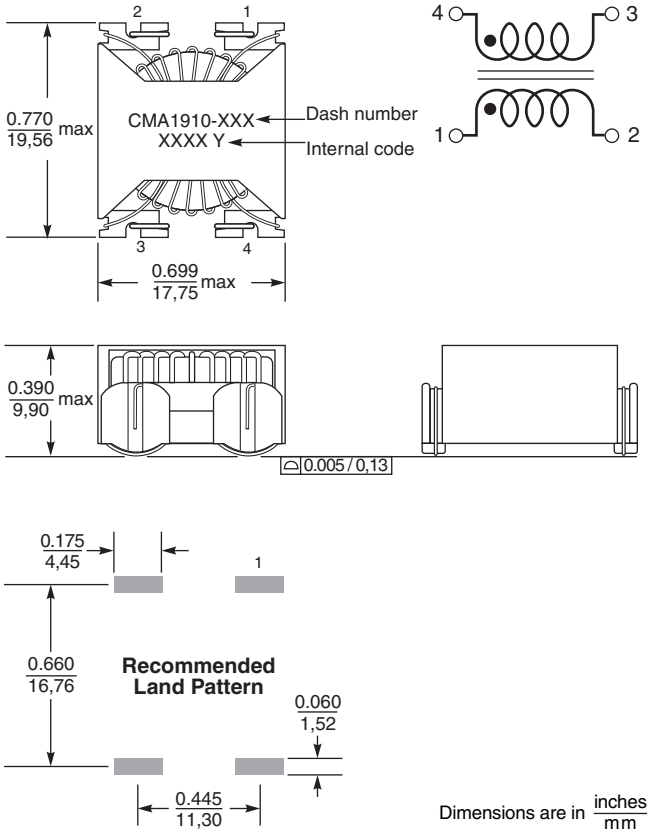
# Common Mode Choke – CMA1910

| Part number[1] | Common mode impedance max (kOhms) | Inductance (mH)[2] min | Inductance (mH)[2] nom | Irms[3] (A) | DCR max[4] (mOhms) | Isolation[5] (Vrms) |
|---|---|---|---|---|---|---|
| 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 |

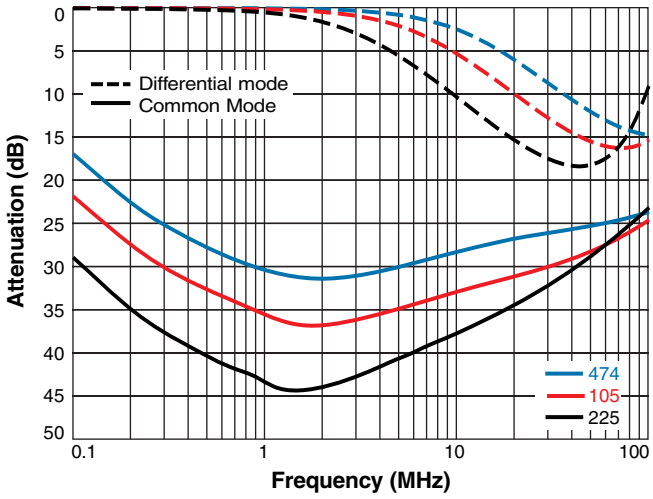
1. **Packaging: D** = 13″ machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
2. Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
3. 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.
4. DCR is specified per winding.
5. Isolation (hipot) measured for 1 minute.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

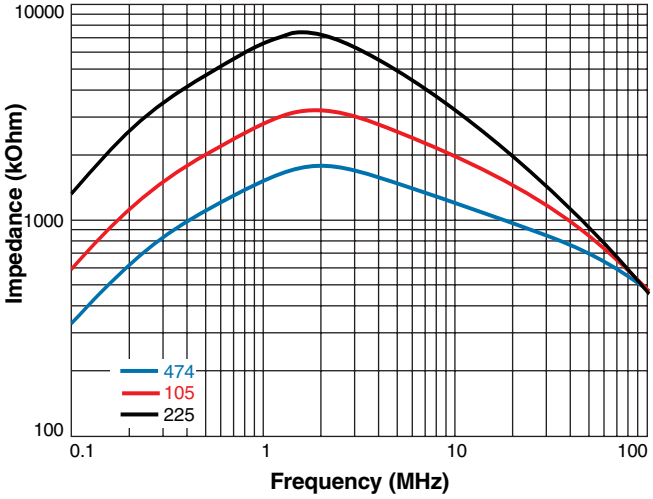
**Core material** Ferrite
**Terminations** RoHS compliant tin-silver-copper over copper
**Weight** 4.2 g
**Ambient temperature** –40°C to +125°C with Irms current
**Maximum part temperature** +155°C (ambient + temp rise)
**Storage temperature** Component: –40°C to +155°C.
Tape and reel packaging: –40°C 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** 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.




## Typical Attenuation




## Impedance versus Frequency




Coilcraft
www.coilcraft.com

**US** +1-847-639-6400 sales@coilcraft.com
**UK** +44-1236-730595 sales@coilcraft-europe.com
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw
**China** +86-21-6218 8074 sales@coilcraft.com.cn
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

Document 1832-4 Revised 01/16/26

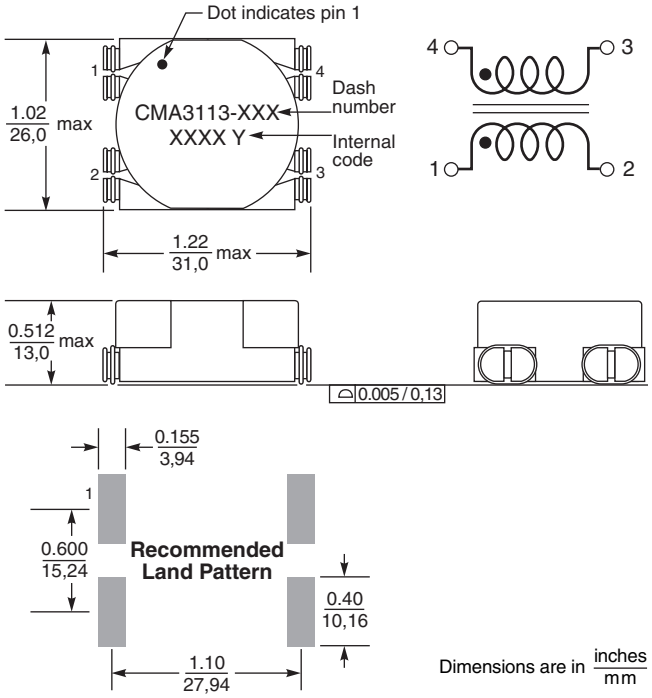
# Common Mode Choke – CMA3113

| Part number[1] | Common mode impedance max (kOhms) | Inductance (mH)[2] min | Inductance (mH)[2] nom | Irms[3] (A) | DCR max[4] (mOhms) | Isolation[5] (Vrms) |
|---|---|---|---|---|---|---|
| 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 |

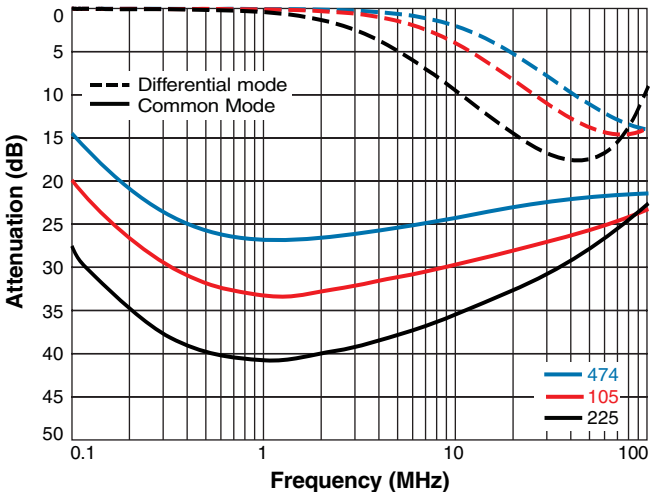
1. **Packaging: D** =13″ machine-ready reel. EIA-481 embossed plastic tape (120 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
2. Inductance shown for each winding, measured at 10 kHz, 5 mV, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
3. 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.
4. DCR is specified per winding.
5. Isolation (hipot) measured for 1 minute.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

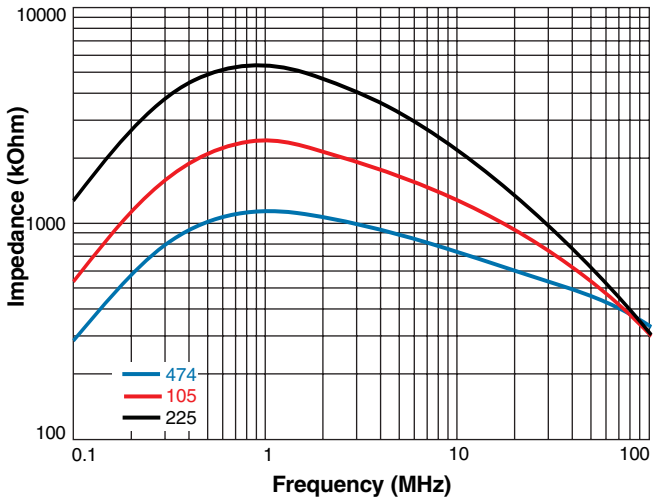
**Core material** Ferrite
**Terminations** RoHS compliant tin-silver-copper over copper
**Weight** 12.5 g
**Ambient temperature** –40°C to +125°C with Irms current
**Maximum part temperature** +155°C (ambient + temp rise)
**Storage temperature** Component: –40°C to +155°C.
Tape and reel packaging: –40°C 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




Coilcraft
www.coilcraft.com

**US** +1-847-639-6400 sales@coilcraft.com
**UK** +44-1236-730595 sales@coilcraft-europe.com
**Taiwan** +886-2-2264 3646 sales@coilcraft.com.tw
**China** +86-21-6218 8074 sales@coilcraft.com.cn
**Singapore** + 65-6484 8412 sales@coilcraft.com.sg

Document 1832-5 Revised 01/16/26