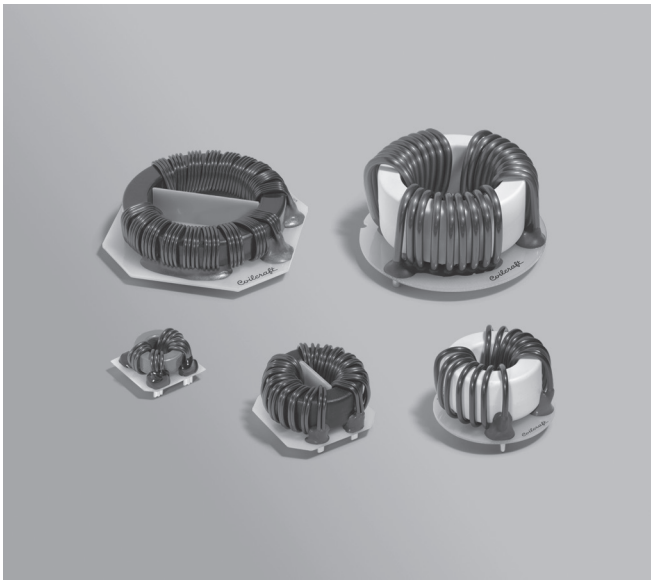
NEW!

High Current Common Mode Chokes

RoHS/ REACH COMPLIANT



- Solutions for use in a wide array of power line circuits
- Ideal for use in consumer electronics and industrial applications
- Suppression of high frequency common mode noise up to 30 MHz
- Excellent current ratings – up to 40 A
- Isolation (hipot) up to 3250 Vrms

Core material See part number page for details
Terminations RoHS compliant tin-silver-copper over copper
Weight See part number page for details
Ambient temperature –40°C to +85°C with Irms current
Maximum part temperature +125°C (ambient + temp rise)
+105°C (CMH3923-30431L)
Storage temperature Component: –40°C to +125°C.
Tray 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)
PCB washing Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

Part number	Inductance[1] min (µH)	DCR[2] max (mOhms)	Irms[3] (A)	Isolation[4] (Vrms)	Length max (mm)	Width max (mm)	Height max (mm)
CMH2617-11340L	11	0.5	40	2500	26	26	17
CMH3923-30431L	300	1.5	31	2500	39	38	23
CMH7036-75433L	750	2.0	33	3250	70	70	36
CMV3532-10516L	1000	5.0	16	2500	35	22	32
CMH4530-10523L	1000	2.7	23	2500	45	45	30
CMH3921-10534L	1000	1.5	34	2500	39	38	21
CMH7018-10535L	1000	2.0	35	2500	70	70	18
CMH3921-20522L	2000	3.2	22	2500	39	38	21.5
CMH3815-24516L	2400	5.5	16	2500	38.5	38.5	15.5

1. Inductance shown for each winding. Measurement details are part number specific. See part number page for details.
2. DCR is specified per winding.
3. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

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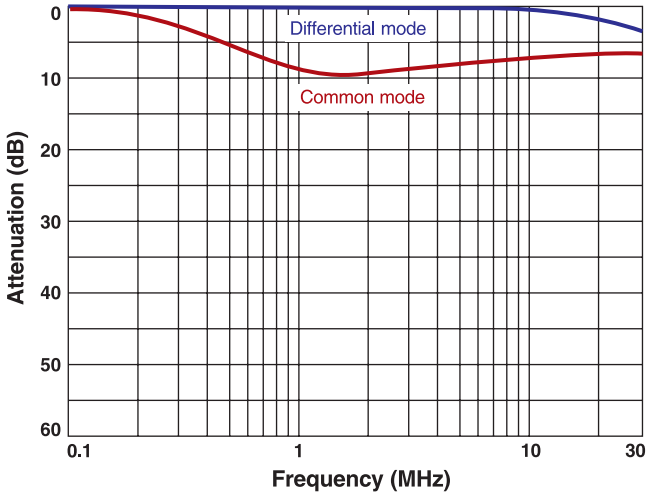
Document 1522-1 Revised 12/05/23

Common Mode Chokes – CMH2617-11340L

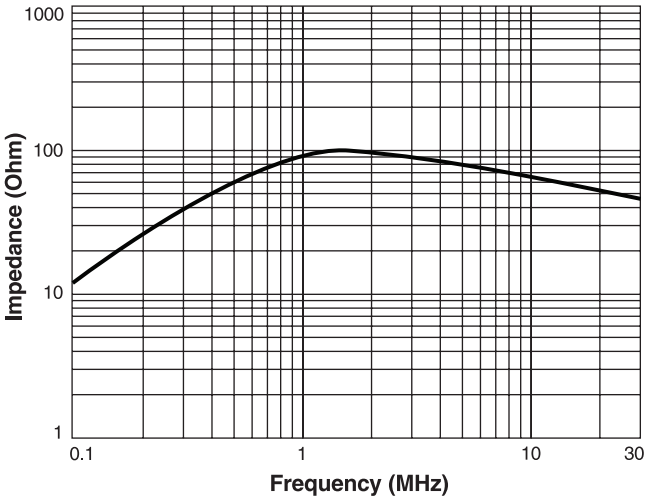
Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH2617-11340L	99.84 @ 1.7 MHz	11	40	0.5	2500

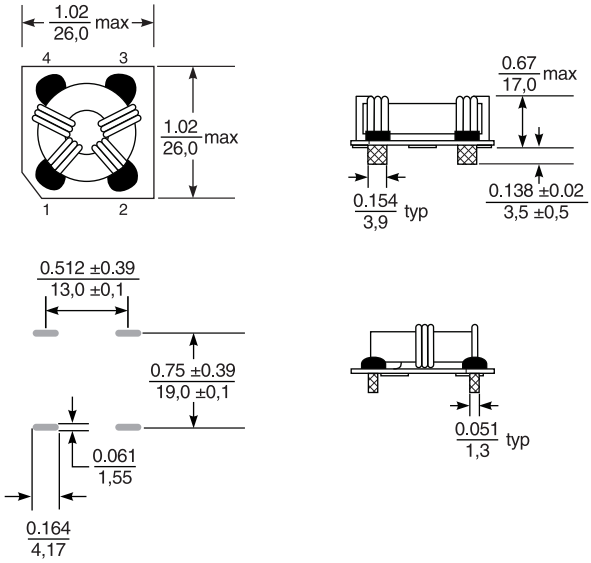
1. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

Typical Attenuation



Typical Impedance versus Frequency



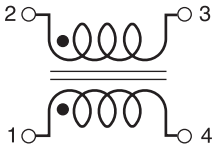


Recommended Land Pattern = Epoxy

Dimensions are in inches / mm

Packaging 96 per tray

Core material Ferrite
Weight 13.76 g



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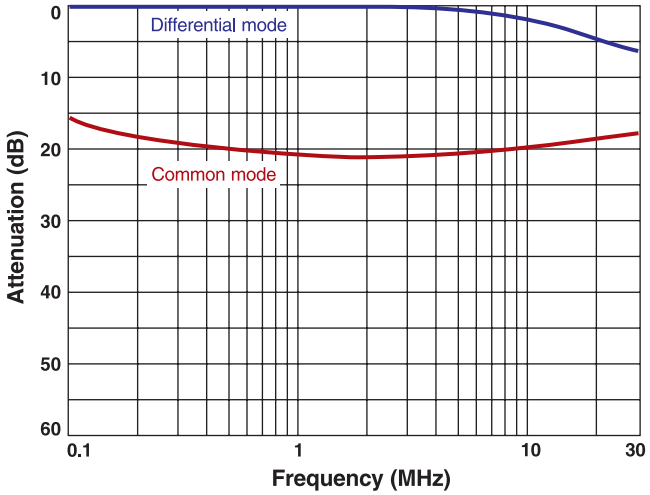
Document 1522-2 Revised 12/05/23

Common Mode Chokes – CMH3923-30431L

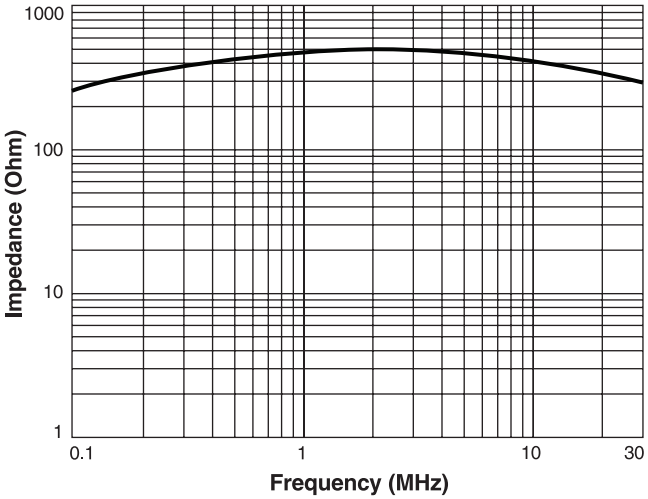
Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH3923-30431L	503 @ 2.2 MHz	300	31	1.5	2500

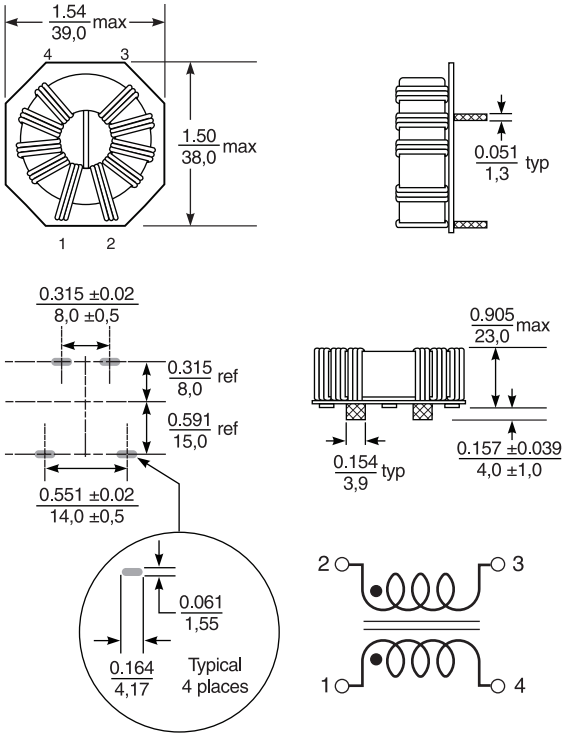
1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

Typical Attenuation



Typical Impedance versus Frequency





Recommended Land Pattern

Dimensions are in inches / mm

Packaging 36 per tray

Core material Ferrite
Weight 53.66 g

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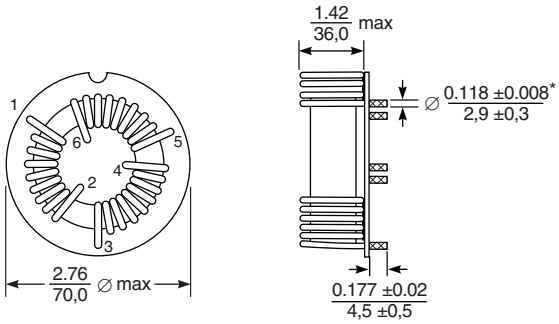
Document 1522-3 Revised 12/05/23

RoHS/ REACH COMPLIANT

Common Mode Chokes – CMH7036-75433L

Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH7036-75433L	2240 @ 4.4 MHz	750	33	2.0	3250

1. Inductance shown for each winding, measured at 10 kHz, 0.01 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

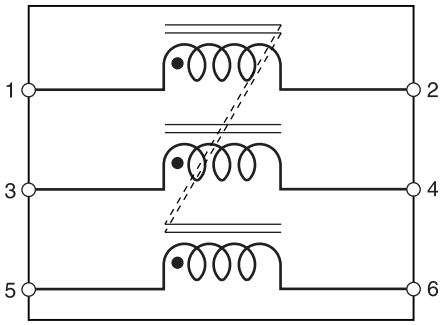


Dimensions are in inches / mm

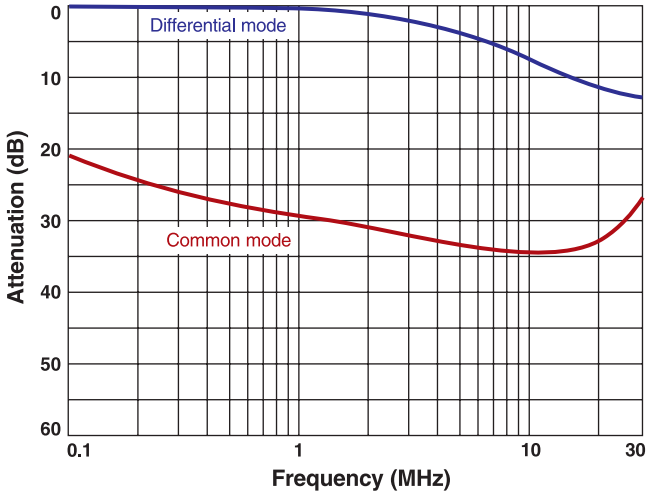
* Recommended hole diameter cutout: 0.128 / 3,25

Packaging 9 per tray

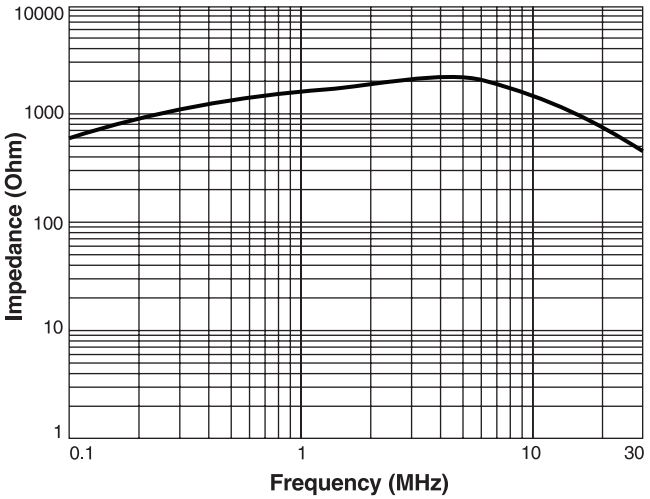
Core material Nanocrystalline
Weight 223.17 g



Typical Attenuation



Typical Impedance versus Frequency



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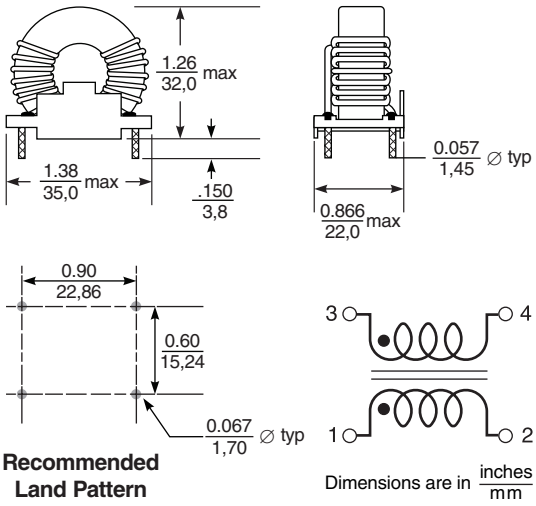
Document 1522-4 Revised 12/05/23

Common Mode Chokes – CMV3532-10516L

Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMV3532-10516L	1870 @ 8.8 MHz	1000	16	5	2500

1. Inductance shown for each winding, measured at 1 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.



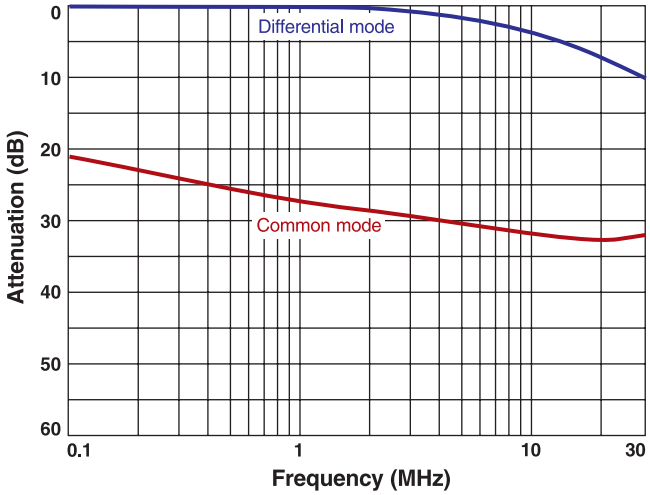
Recommended Land Pattern

Dimensions are in inches / mm

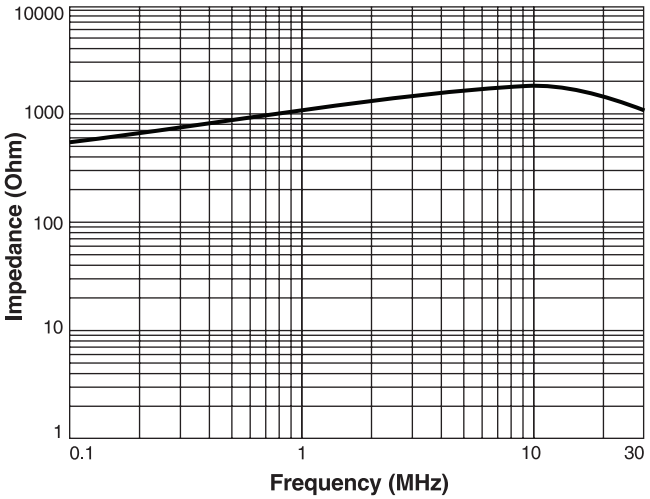
Packaging 49 per tray

Core material Nanocrystalline
Weight 28.25 g

Typical Attenuation



Typical Impedance versus Frequency



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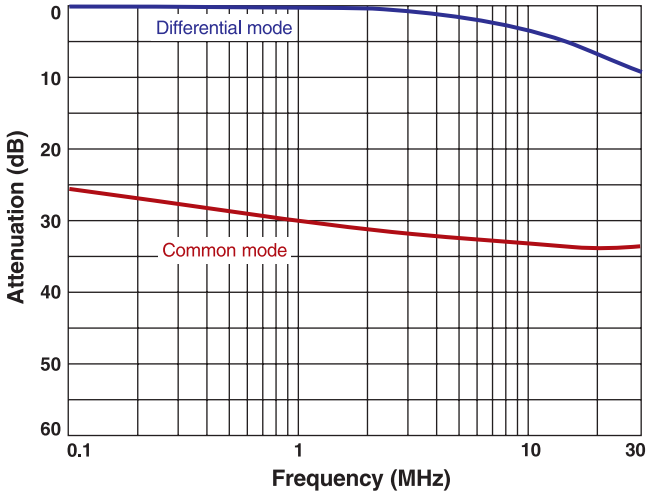
Document 1522-5 Revised 12/05/23

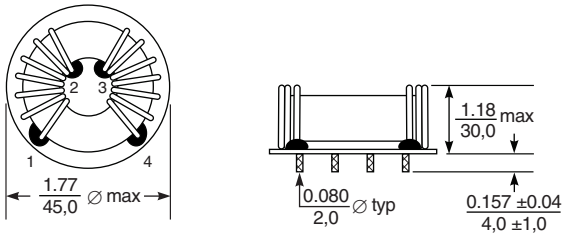
Common Mode Chokes – CMH4530-10523L

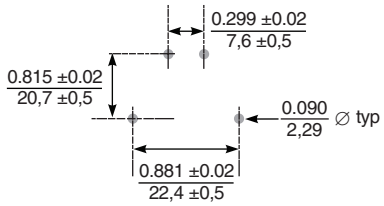
Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH4530-10523L	1967 @ 4.9 MHz	1000	23	2.7	2500

1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

Typical Attenuation



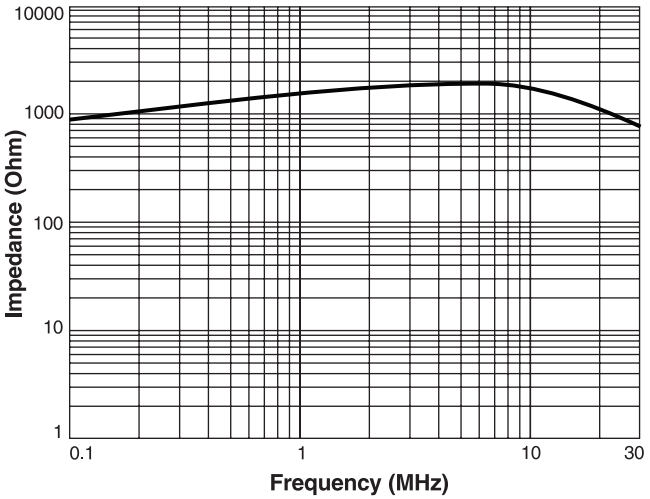




Recommended Land Pattern

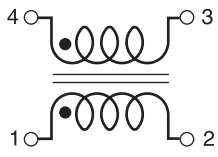
Dimensions are in inches / mm

Typical Impedance versus Frequency



Packaging 20 per tray

Core material Nanocrystalline
Weight 77.04 g



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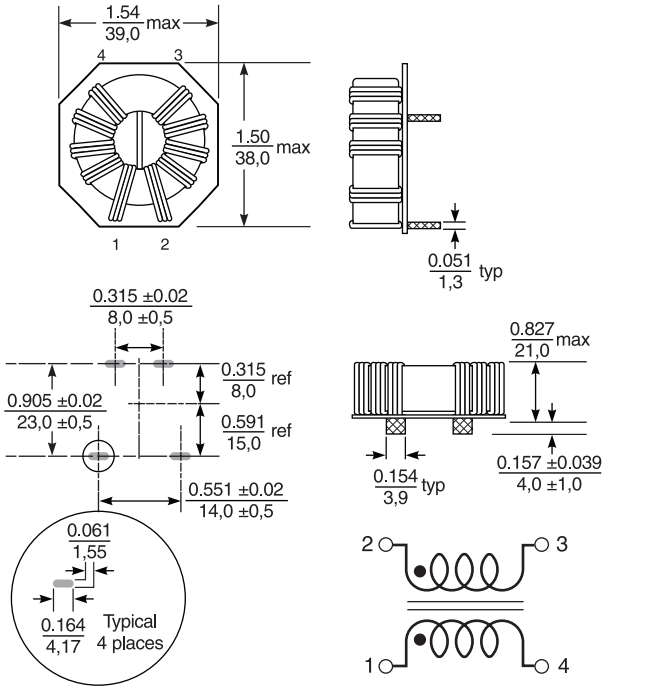
Document 1522-6 Revised 12/05/23

Common Mode Chokes – CMH3921-10534L

Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH3921-10534L	1440 @ 10 MHz	1000	34	1.5	2500

1. Inductance shown for each winding, measured at 10 kHz, 0.065 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minutes.
5. Electrical specifications at 25°C.



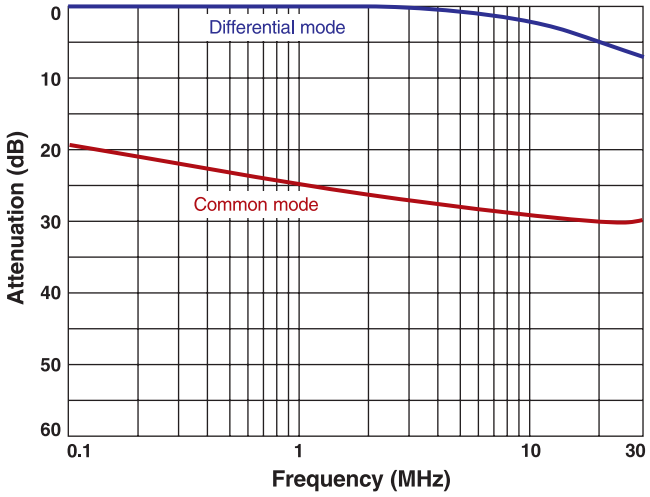
Recommended Land Pattern

Dimensions are in inches / mm

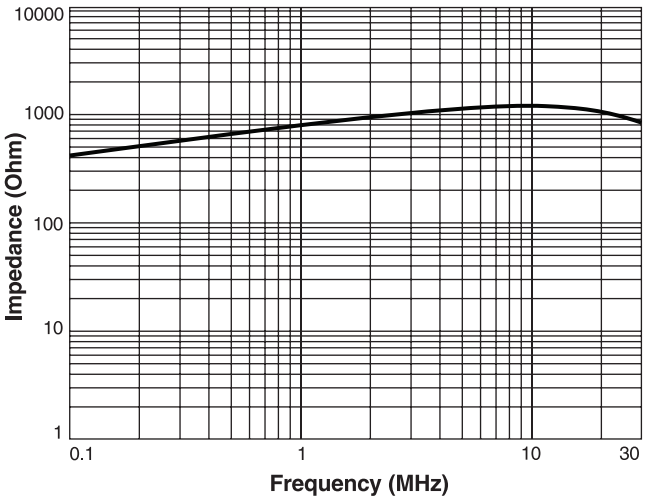
Packaging 36 per tray

Core material Nanocrystalline
Weight 51.70 g

Typical Attenuation



Typical Impedance versus Frequency



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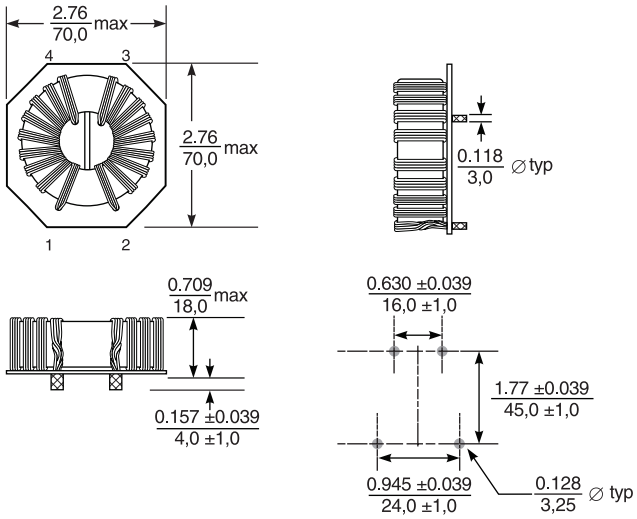
Document 1522-7 Revised 12/05/23

Common Mode Chokes – CMH7018-10535L

Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH7018-10535L	1040 @ 8.2 MHz	1000	35	2.0	2500

1. Inductance shown for each winding, measured at 10 kHz, 0.065 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

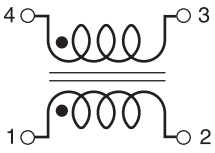


Recommended Land Pattern

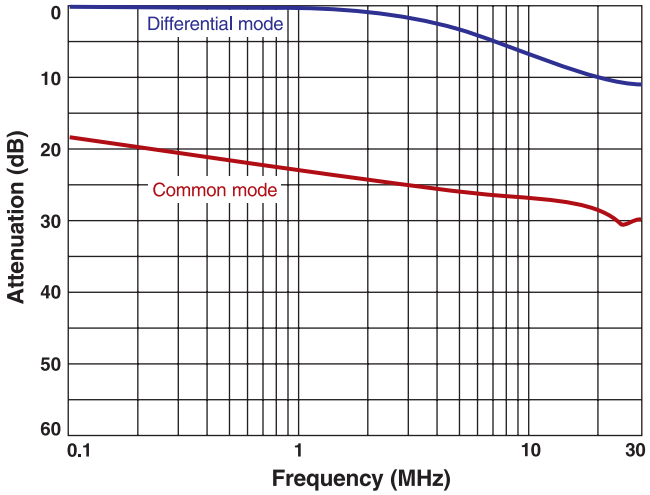
Dimensions are in inches / mm

Packaging 9 per tray

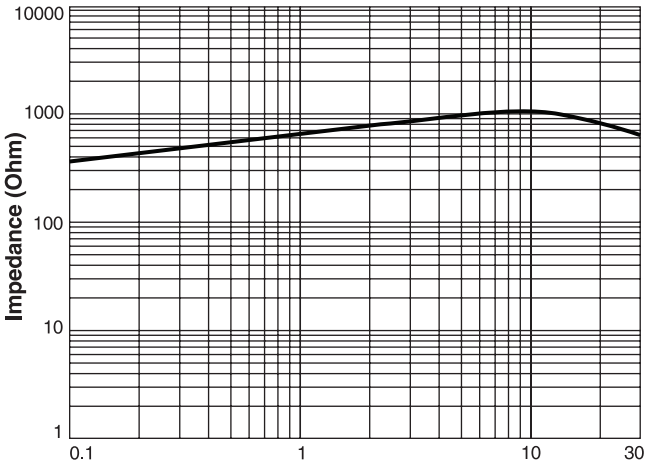
Core material Nanocrystalline
Weight 107.40 g



Typical Attenuation



Typical Impedance versus Frequency



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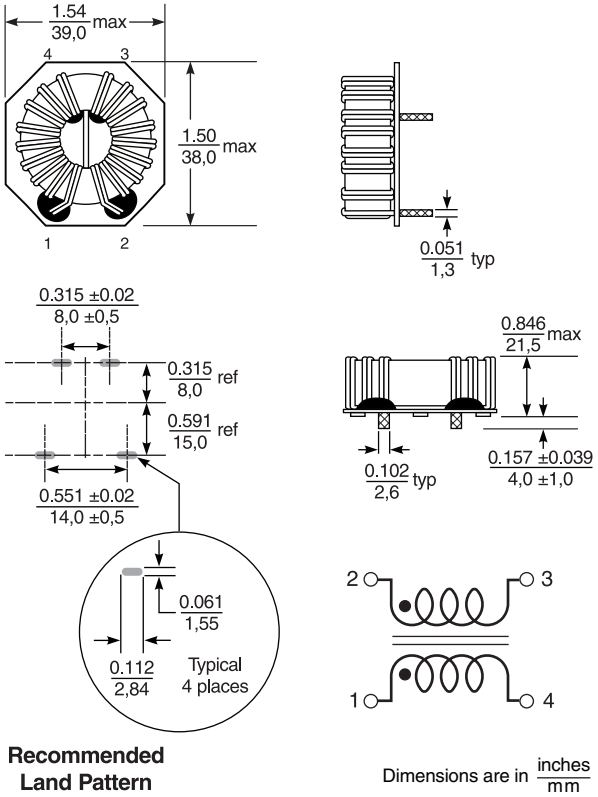
Document 1522-8 Revised 12/05/23

Common Mode Chokes CMH3921-20522L

Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH3921-20522L	2870 @ 5.0 MHz	2000	22	3.2	2500

1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.



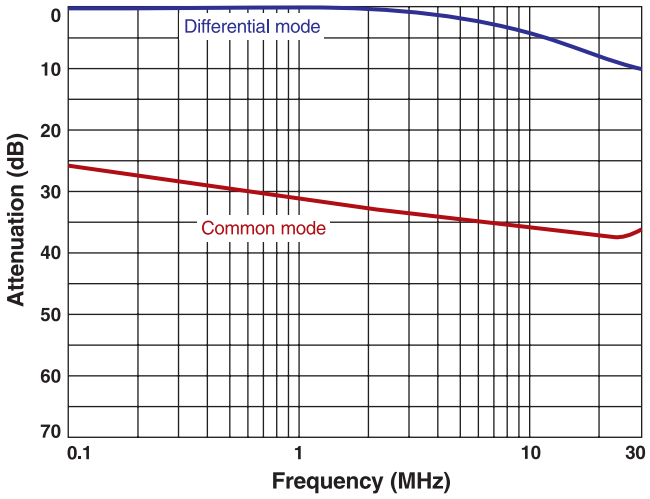
Recommended Land Pattern

Dimensions are in inches / mm

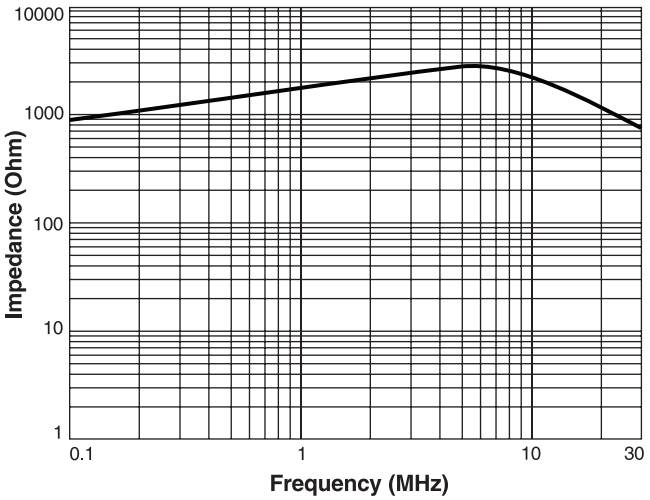
Packaging 36 per tray

Core material Nanocrystalline
Weight 52.19 g

Typical Attenuation



Typical Impedance versus Frequency



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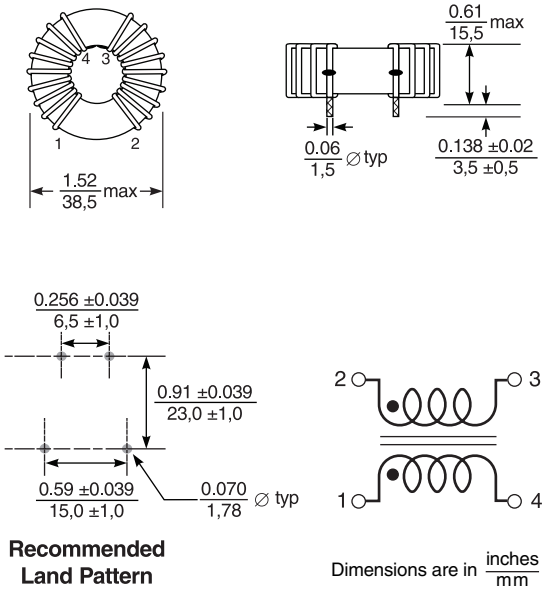
Document 1522-9 Revised 12/05/23

Common Mode Chokes – CMH3815-24516L

Part number	Common mode impedance max (Ohms)	Inductance[1] min (µH)	Irms[2] (A)	DCR max[3] (mOhms)	Isolation[4] (Vrms)
CMH3815-24516L	1830 @ 5.7 MHz	2400	16	5.5	2500

1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.



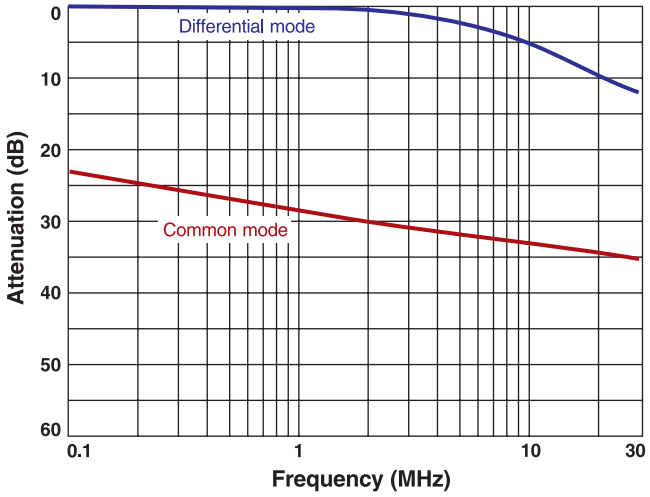
Recommended Land Pattern

Dimensions are in inches / mm

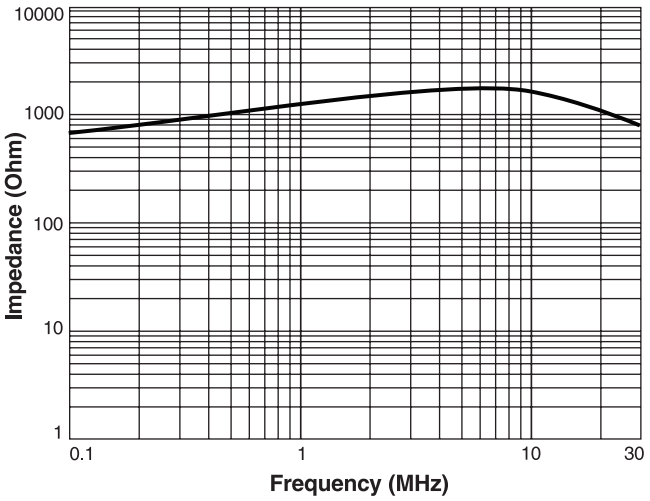
Packaging 36 per tray

Core material Nanocrystalline
Weight 30.59 g

Typical Attenuation



Typical 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

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