

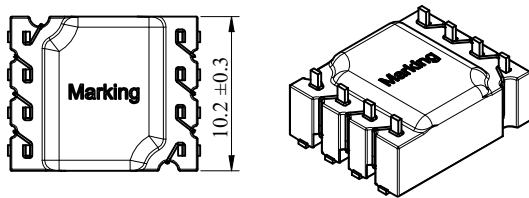
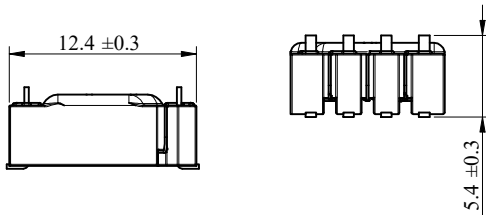
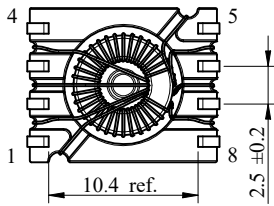
# Common Mode Line Filter

CMF1210-101-00

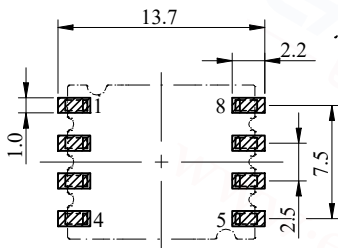
Replacement: Würth-744205

REV: 0

## A. Dimensions (unit:mm)

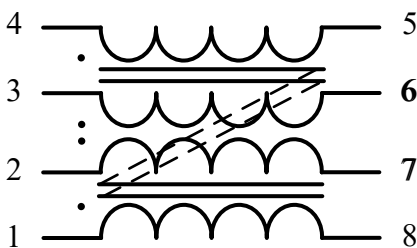


Cosmetic Dimension



Recommended Land Pattern

## B. Schematic



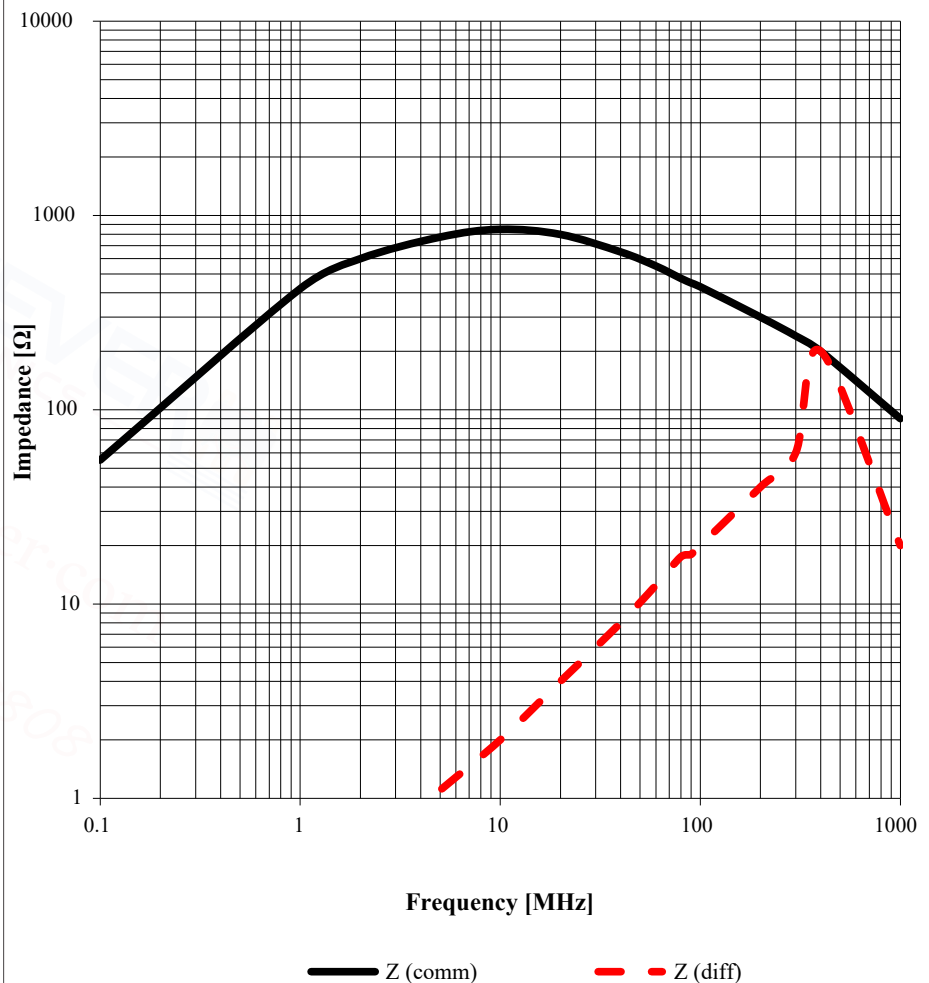
## C. General Properties

Ambient Temperature (referring to IR)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

## D. Electrical Properties

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		4		
Inductance	L	100 kHz/ 100 mV	100	μH	±35%
Maximum Impedance	Z <sub>max</sub>		900	Ω	max.
Rated Current	I <sub>R</sub>	ΔT = 40 K	700	mA	max.
DC Resistance	R <sub>DC</sub>	@ 20 °C	0.1	Ω	max.
Leakage Inductance	L <sub>S</sub>	1 MHz/ 1 mA	92	nH	typ.
Insulation Test Voltage	V <sub>T</sub>		500	V (AC)	max.
Rated Voltage	V <sub>R</sub>		80	V	max.

## E. Typical Impedance Characteristics



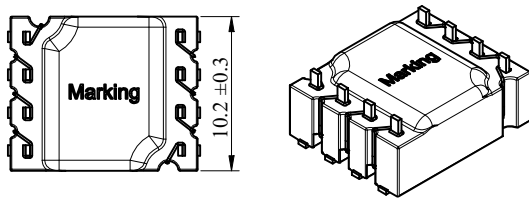
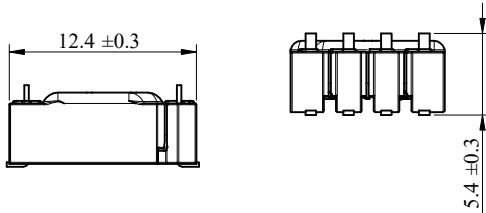
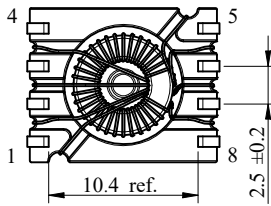
# Common Mode Line Filter

CMF1210-102-00

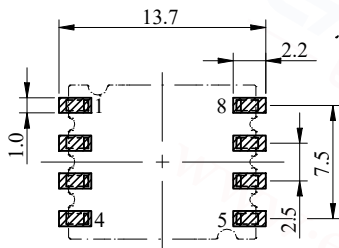
Replacement: Würth-744202

REV: 0

## A. Dimensions (unit:mm)

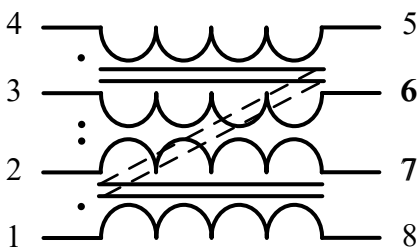


Cosmetic Dimension



Recommended Land Pattern

## B. Schematic



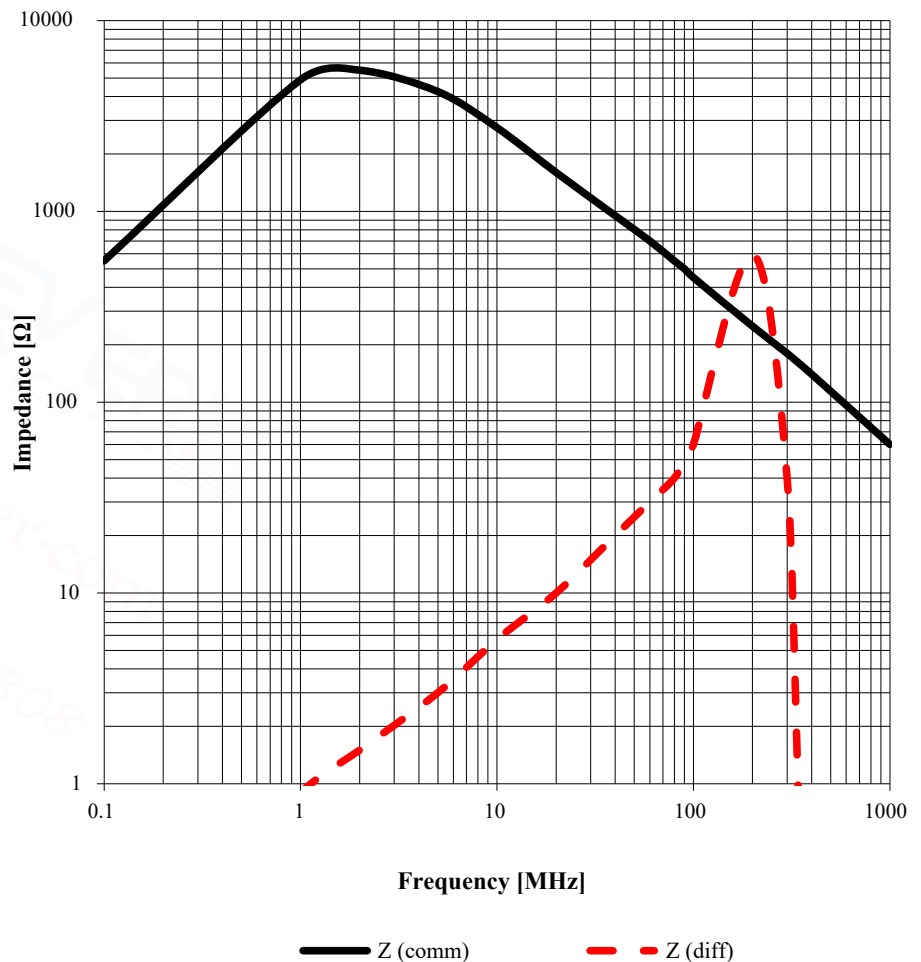
## C. General Properties

Ambient Temperature (referring to IR)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

## D. Electrical Properties

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		4		
Inductance	L	100 kHz/ 100 mV	1000	μH	±35%
Maximum Impedance	Z <sub>max</sub>		5000	Ω	max.
Rated Current	I <sub>R</sub>	ΔT = 40 K	350	mA	max.
DC Resistance	R <sub>DC</sub>	@ 20 °C	0.4	Ω	max.
Leakage Inductance	L <sub>S</sub>	1 MHz/ 1 mA	170	nH	typ.
Insulation Test Voltage	V <sub>T</sub>		500	V (AC)	max.
Rated Voltage	V <sub>R</sub>		80	V	max.

## E. Typical Impedance Characteristics



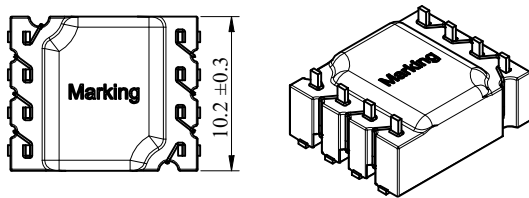
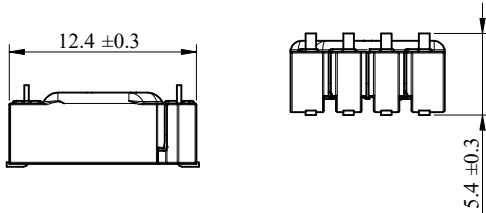
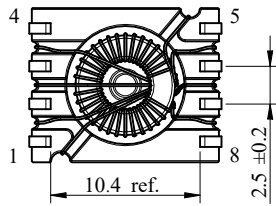
# Common Mode Line Filter

CMF1210-251-00

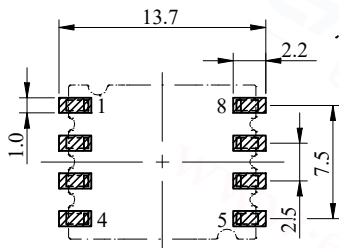
Replacement: Würth-744204

REV: 0

## A. Dimensions (unit:mm)

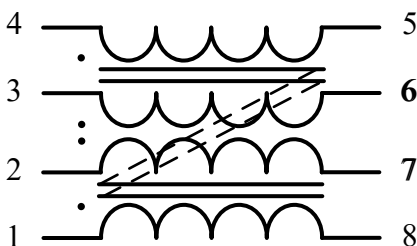


Cosmetic Dimension



Recommended Land Pattern

## B. Schematic



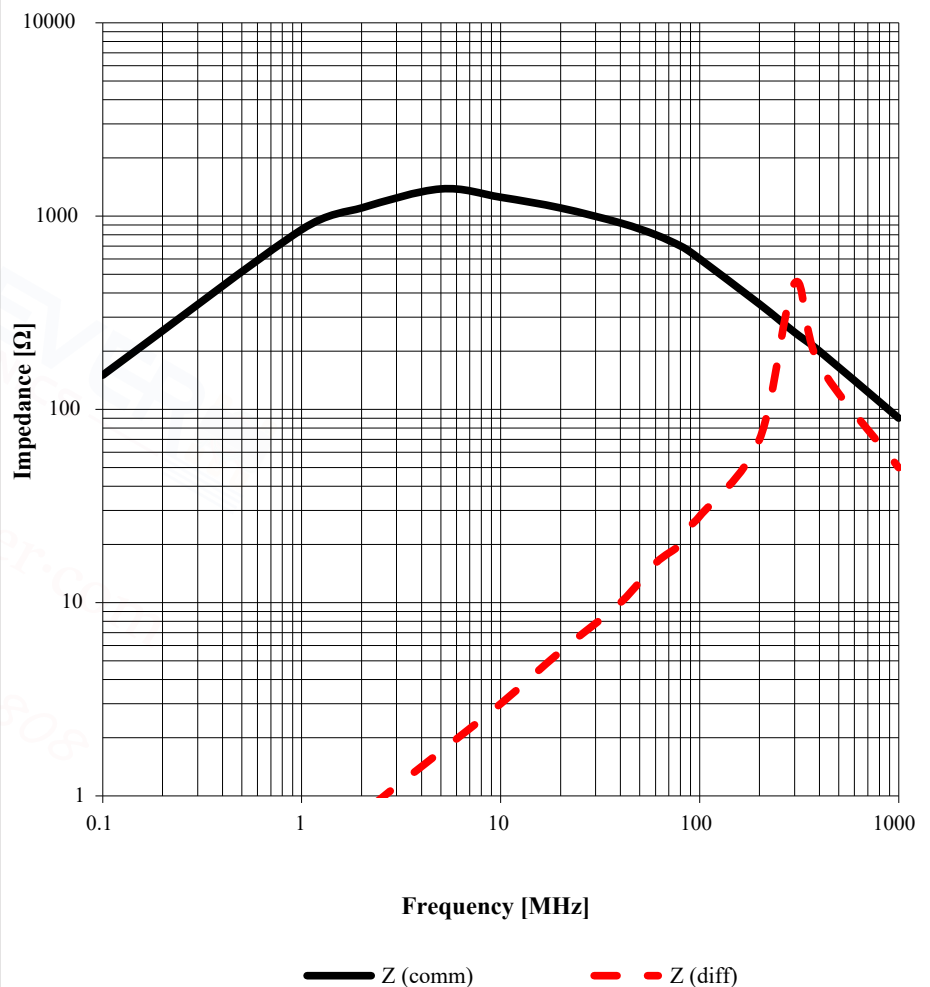
## C. General Properties

Ambient Temperature (referring to IR)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

## D. Electrical Properties

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		4		
Inductance	L	100 kHz/ 100 mV	250	μH	±35%
Maximum Impedance	Z <sub>max</sub>		1400	Ω	max.
Rated Current	I <sub>R</sub>	ΔT = 40 K	600	mA	max.
DC Resistance	R <sub>DC</sub>	@ 20 °C	0.12	Ω	max.
Leakage Inductance	L <sub>S</sub>	1 MHz/ 1 mA	110	nH	typ.
Insulation Test Voltage	V <sub>T</sub>		500	V (AC)	max.
Rated Voltage	V <sub>R</sub>		80	V	max.

## E. Typical Impedance Characteristics



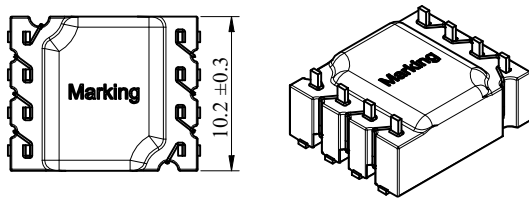
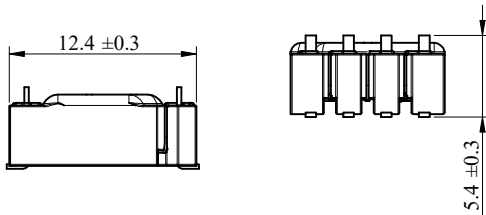
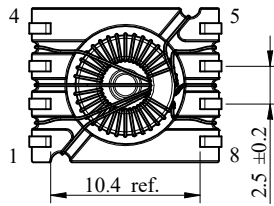
# Common Mode Line Filter

CMF1210-350-00

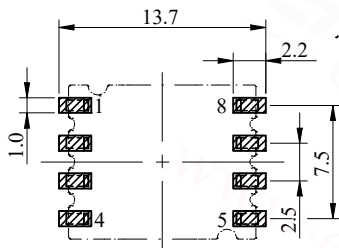
Replacement: Würth-744207

REV: 0

## A. Dimensions (unit:mm)

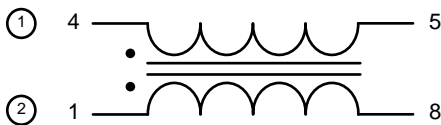


Cosmetic Dimension



Recommended Land Pattern

## B. Schematic



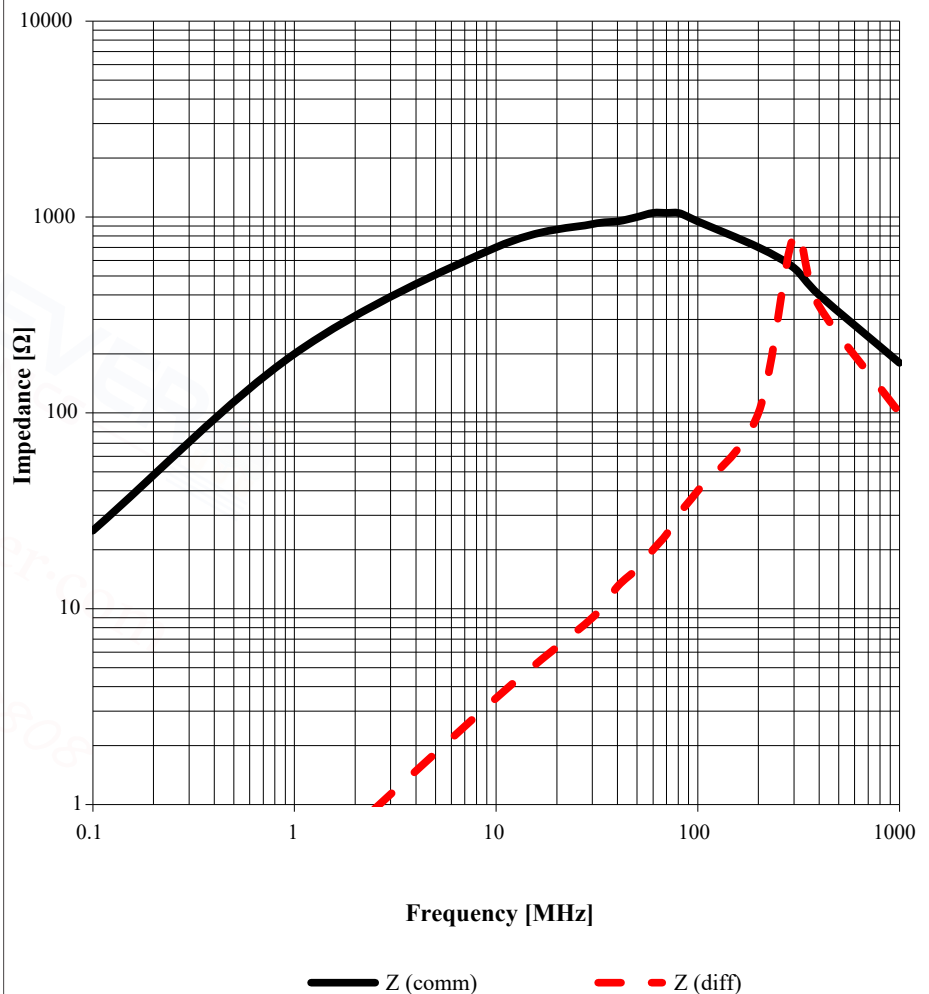
## C. General Properties

Ambient Temperature (referring to IR)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

## D. Electrical Properties

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		2		
Inductance	L	100 kHz/ 100 mV	35	μH	±35%
Maximum Impedance	Z <sub>max</sub>		1100	Ω	max.
Rated Current	I <sub>R</sub>	ΔT = 40 K	2700	mA	max.
DC Resistance	R <sub>DC</sub>	@ 20 °C	0.035	Ω	max.
Leakage Inductance	L <sub>S</sub>	1 MHz/ 1 mA	63	nH	typ.
Insulation Test Voltage	V <sub>T</sub>		500	V (AC)	max.
Rated Voltage	V <sub>R</sub>		80	V	max.

## E. Typical Impedance Characteristics



# Common Mode Line Filter

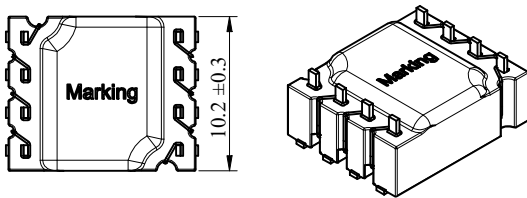
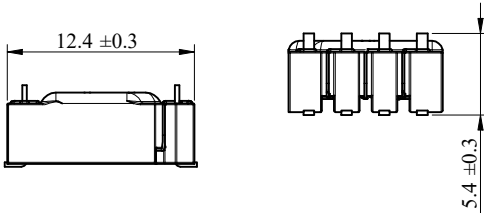
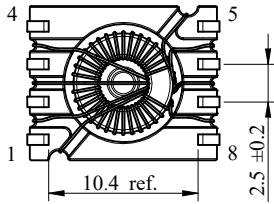


CMF1210-472-00

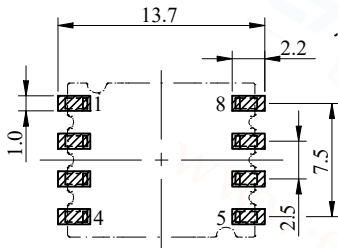
Replacement: Würth-744201

REV: 0

## A. Dimensions (unit:mm)

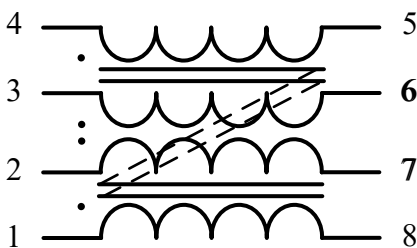


Cosmetic Dimension



Recommended Land Pattern

## B. Schematic



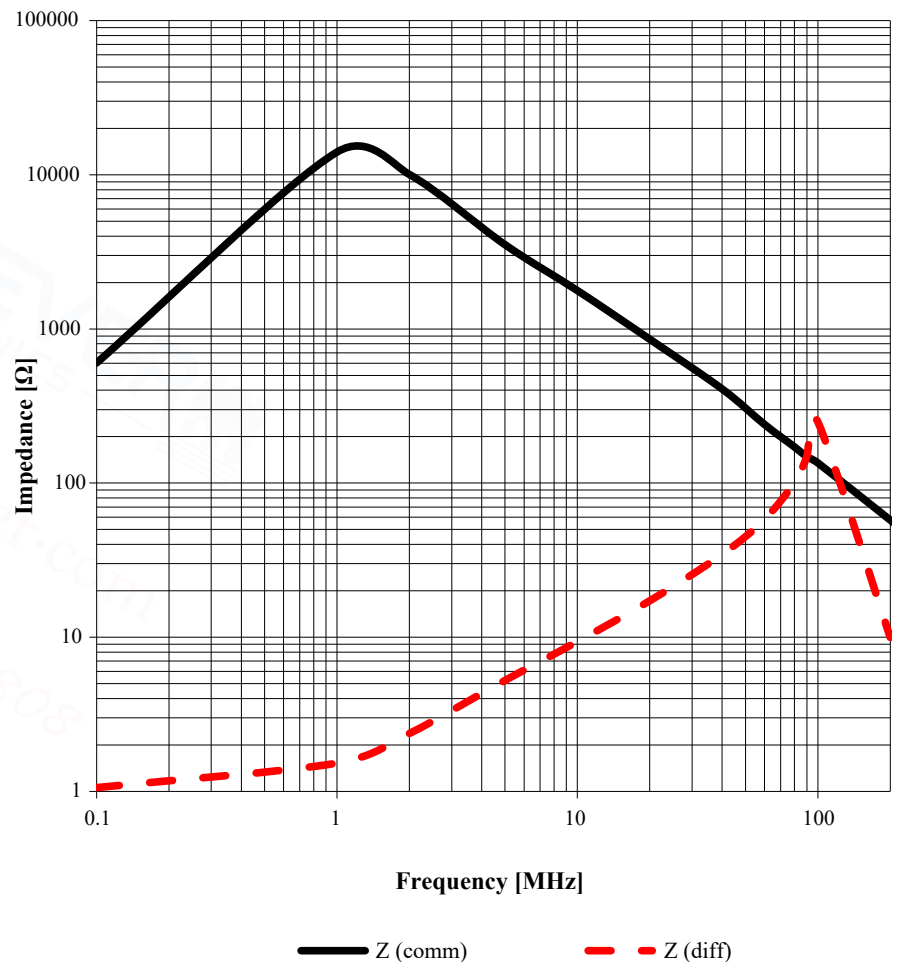
## C. General Properties

Ambient Temperature (referring to IR)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

## D. Electrical Properties

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		4		
Inductance	L	100 kHz/ 100 mV	4700	μH	±35%
Maximum Impedance	Z <sub>max</sub>		14000	Ω	max.
Rated Current	I <sub>R</sub>	ΔT = 40 K	200	mA	max.
DC Resistance	R <sub>DC</sub>	@ 20 °C	0.85	Ω	max.
Leakage Inductance	L <sub>S</sub>	1 MHz/ 1 mA	290	nH	typ.
Insulation Test Voltage	V <sub>T</sub>		500	V (AC)	max.
Rated Voltage	V <sub>R</sub>		80	V	max.

## E. Typical Impedance Characteristics



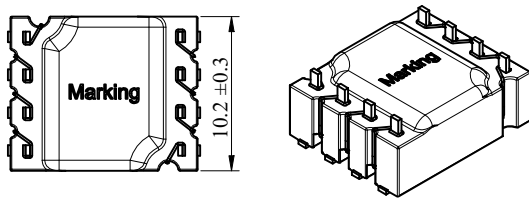
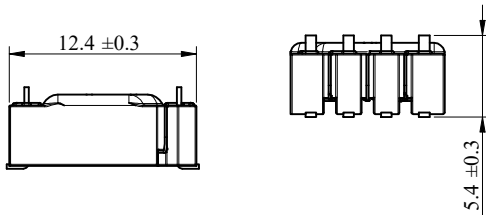
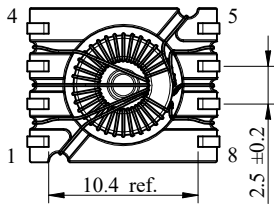
# Common Mode Line Filter

CMF1210-501-00

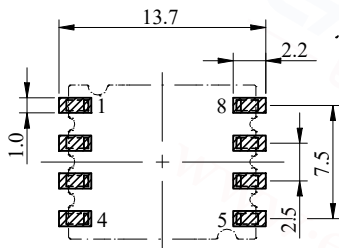
Replacement: Würth-744203

REV: 0

## A. Dimensions (unit:mm)

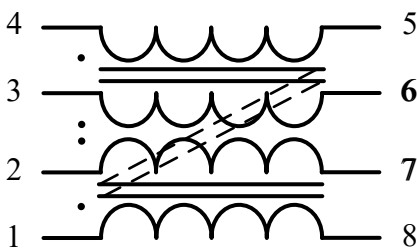


Cosmetic Dimension



Recommended Land Pattern

## B. Schematic



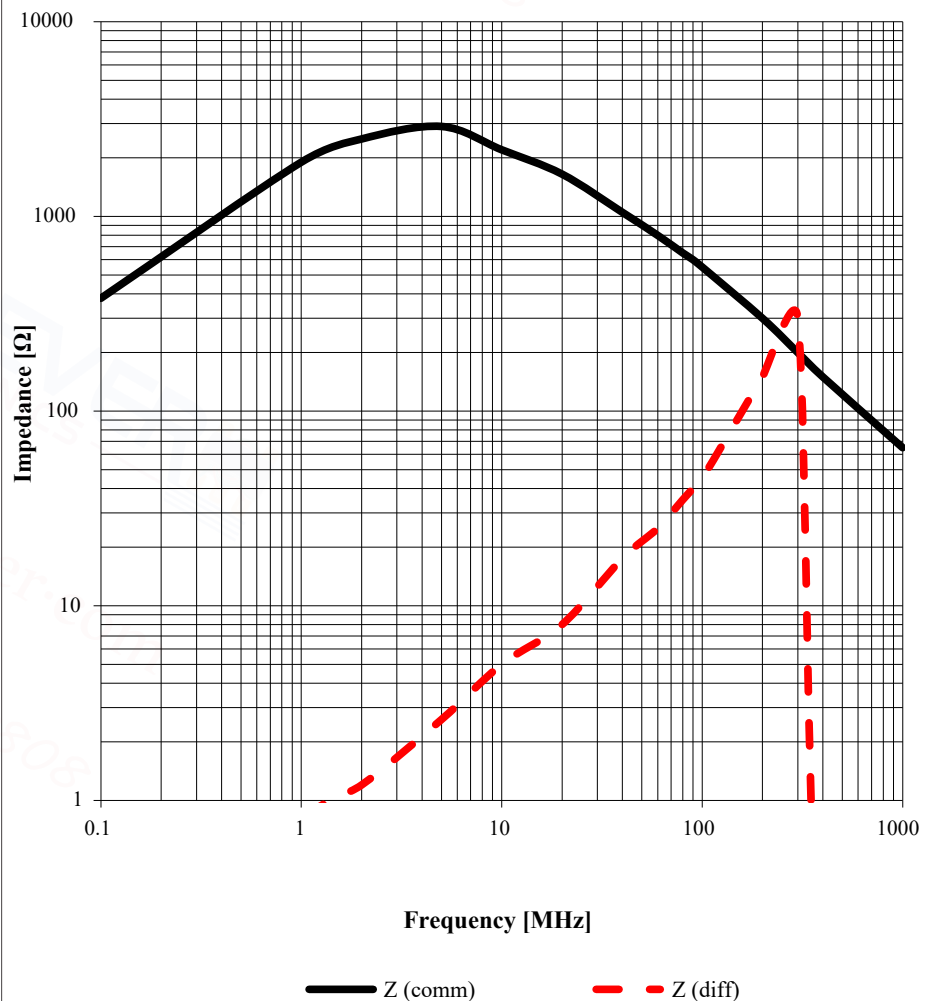
## C. General Properties

Ambient Temperature (referring to IR)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

## D. Electrical Properties

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		4		
Inductance	L	100 kHz/ 100 mV	500	μH	±35%
Maximum Impedance	Z <sub>max</sub>		3000	Ω	max.
Rated Current	I <sub>R</sub>	ΔT = 40 K	400	mA	max.
Leakage Inductance	L <sub>S</sub>	1 MHz/ 1 mA	140	nH	typ.
Insulation Test Voltage	V <sub>T</sub>		500	V (AC)	max.
Rated Voltage	V <sub>R</sub>		80	V	max.

## E. Typical Impedance Characteristics



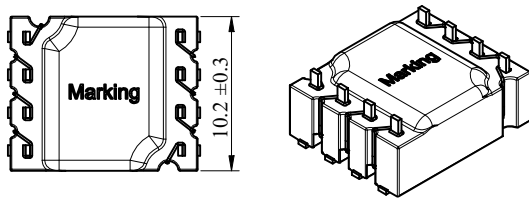
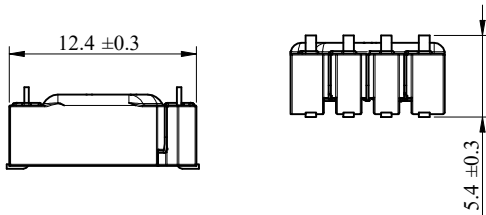
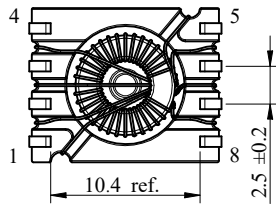
# Common Mode Choke

CMF1210-600-00

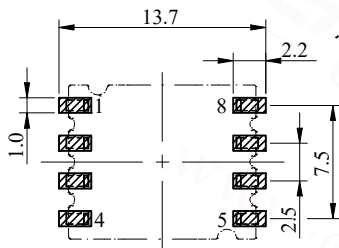
Replacement: Würth-744206

REV: 0

## A. Dimensions (unit:mm)

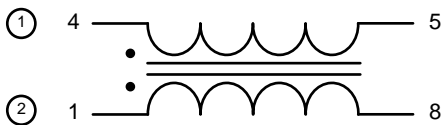


Cosmetic Dimension



Recommended Land Pattern

## B. Schematic



## C. General Properties

Ambient Temperature (referring to IR)	-40 up to +85 °C
Operating Temperature	-40 up to +125 °C
Storage Conditions (in original packaging)	< 40 °C ; < 75 % RH
Moisture Sensitivity Level (MSL)	1
Test conditions of Electrical Properties: +20 °C, 33 % RH if not specified differently	

## D. Electrical Properties

Properties		Test conditions	Value	Unit	Tol.
Number of windings	N		2		
Inductance	L	100 kHz/ 100 mV	60	μH	±35%
Maximum Impedance	Z <sub>max</sub>		1600	Ω	max.
Rated Current	I <sub>R</sub>	ΔT = 40 K	2000	mA	max.
DC Resistance	R <sub>DC</sub>	@ 20 °C	0.065	Ω	max.
Leakage Inductance	L <sub>S</sub>	1 MHz/ 1 mA	86	nH	typ.
Insulation Test Voltage	V <sub>T</sub>		500	V (AC)	max.
Rated Voltage	V <sub>R</sub>		80	V	max.

## E. Typical Impedance Characteristics

