PARKER
overseas

COMMON MODE CHOKES

STANDARD RANGE OF COMMON MODE CHOKES

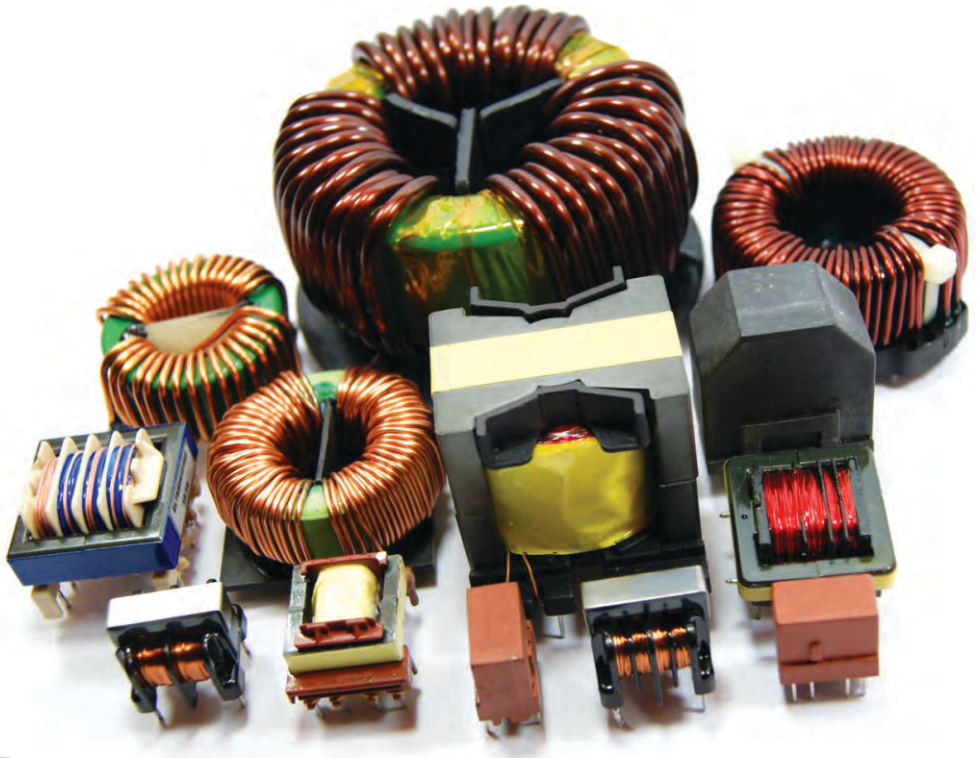
Brief Company Profile

Parker Overseas, established in 1995, is engaged in providing standard as well as customized Wound Magnetic Solutions. We are engaged in the Design, Manufacture and Supply of Thru- Hole (TH) & Surface Mount Type (SMT) Wound Magnetic Components like Transformers, Inductors, Chokes, Coils, Line Filters, Power Transformers, Current Transformers, Power Toroidal Transformers, Switching and SMPS Transformers and Modules for following applications:

Electronics	Telecom	Power	Solar
Automotive	Railway	Automation	EMC Filters

We have state of the art infrastructure operating on 61,000 sq. ft. area built on 3000 Sq. Mtrs. of Land. Total production utilizes over 400 employees that include operators and various qualified engineers. Parker overseas is established under 100% Export Oriented Zone. We have the facilities to wind copper wires of fine gauges as well as of thicker gauges: Ø0.04mm – Ø3mm.

Our in-house Design & Development lab, Prototype Development Lab, Mechanical Tooling Workshop and Plastic Molding facility enables us to provide customized solutions in quick time.



Systems and Compliances

- Fully implemented ERP System
- ISO 9001:2015
- IATF 16949:2016
- ISO 14001:2015
- UL – OBJY2 Class-F Insulation System File No. E491743*
- VDE*
- RoHS & REACH

* Available on request

Distinctive Facilities

- Network Analyser (upto 4GHz): Measurement of Impedance vs Frequency and Attenuation Losses
- Power Choke Tester (upto 1000A) : Measurement of Inductance under Current load
- HF Precision LCR (upto 30MHz)
- Measurement of Temperature rise in a Winded Coil under Specified Load Current
- Impulse Testing for Winding Insulation
- Automatic Measurement of Transformer Parameters (upto 1MHz)
- Very low DCR Measurement
- Environment Chamber
- Vacuum Impregnation
- Lab Autoclave for Testing under specified Air Pressure
- AC/DC Hipot with specified Leakage current
- In-house Mechanical Tooling Workshop & Plastic Molding

PARKER overseas

Quality Policy and Management Philosophy

Quality Policy

We shall constantly endeavor to meet the exacting quality demands of our customers while maintaining competitiveness through continuous improvements.

Management Philosophy : The Q*P*T Principle

A principle for optimally managing and further developing the resources and capabilities of our firm so as to maximize the value of the stakeholders of the firm. Under this principle all the activities will be coordinated so as to produce . . .

HIGH QUALITY PRODUCT

@

LOWEST POSSIBLE COST

in

MINIMUM POSSIBLE LEAD TIME

i.e. to achieve **Q**uality, **P**rice & **T**ime both *simultaneously as well as consistently*

Customer Satisfaction = Q*P*T

If either one is zero, the customer satisfaction is zero, irrespective of other two being even the best.

At Parker, Customer satisfaction is being focused as the key competitive advantage for sustainable future growth

Table of Contents

Electrical Characteristics

Rated Voltage - Ur

The rated voltage is the max. value of DC or AC voltage, which can be operated by the component during the complete time.

High Voltage Test - Ut

The high voltage test depends on the relevant norm. It can be a DC or AC voltage test. The duration of the test voltage according to IEC 60938 or IEC 61558-1.

Rated Current - Ir

The rated current is the maximum DC or AC current during the component operation.

Nominal Inductance - Lr

Nominal Inductance of a Choke is described in unit Henry. Measured by frequency 10kHz/ 100kHz and test current of 0.1mA.

DC-Resistance - R dc

The DC-Resistance is measured with DC-Current on each terminal by the ambient temperature of 20°C.

Isolation Class

Standard Isolation Class for all components is Class B (130° Celsius). Components in Class F (155° Celsius) and Class H (180° Celsius) are available on request.

COMMON MODE POWER LINE CHOKES

PARKER					WURTH	
Series	Item Code	Lr (mH)	Ir (A)	R dc max. (mΩ)	Wurth's Equivalent	Series
100	PCV100201	1.0	2.0	45	744821201	WE-CMB
	PCV100240	4.0	1.5	140	744821240	
	PCV100150	5.0	1.0	220	744821150	
	PCV100110	10.0	0.7	350	744821110	
	PCV100120	20.0	0.5	1000	744821120	
	PCV100039	39.0	0.3	3000	744821039	
110	PCV110301	1.0	3.0	35	744822301	WE-CMB
	PCV110222	2.2	2.0	70	744822222	
	PCV110233	3.3	1.5	120	744822233	
	PCV110110	10.0	1.0	360	744822110	
	PCV110120	20.0	0.5	540	744822120	
120	PCV120601	1.0	6.0	13	744823601	WE-CMB
	PCV120422	2.2	4.0	30	744823422	
	PCV120333	3.3	2.5	60	744823333	
	PCV120305	5.0	2.5	95	744823305	
	PCV120210	10.0	2.0	125	744823210	
	PCV120220	20.0	1.5	270	744823220	
130	PCV130101	1.0	10	7	744824101	WE-CMB
	PCV130310	10.0	3	105	744824310	
	PCV130220	20.0	2	220	744824220	
140	PCV140201	1.0	12	9	7448251201	WE-CMB
	PCV140022	2.2	8	14	7448258022	
	PCV140033	3.3	6	25	7448256033	
	PCV140605	5.0	6	45	744825605	
	PCV140320	20.0	3	160	744825320	
	PCV140433	33.0	3	210	744825433	
150	PCV150505	0.5	35	2.3	7448263505	WE-CMB
	PCV150510	1.0	25	4.5	7448262510	
	PCV150013	1.3	20	6.2	7448262013	
	PCV150418	1.8	14	9.5	7448261418	
160	PCH160101	1.0	10.0	12.5	744834101	WE-CMB
	PCH160622	2.2	6.0	22.0	744834622	
	PCH160433	3.3	5.0	37.0	744834433	
	PCH160405	5.0	4.0	50.0	744834405	
	PCH160407	7.0	3.5	80.0	744834407	
300	PCV300470	0.047	15	4.6	744844470	WE-ExB
	PCV300101	0.100	14	6	744844101	
	PCV300221	0.220	12	9.0	744844221	
	PCV300102	1.000	4.5	42	744844102	
430	PCV4303201	0.9	32	1.1	7448053201	WE-CMBNC
	PCV4302303	3.0	23	3.0	7448052303	
	PCV4301804	4.5	18	4.2	7448051804	
	PCV4301012	12.0	10	15	7448051012	
	PCV4300530	30.0	5	46	7448050530	
	PCV4300490	90.0	3.5	110	7448050490	
	PCV4300219	190.0	2.0	310	7448050219	

Note: 1. Insertion Loss graphical data also available. 2. Temperature rise data available on request.

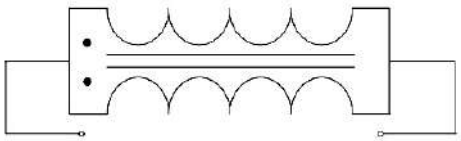
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

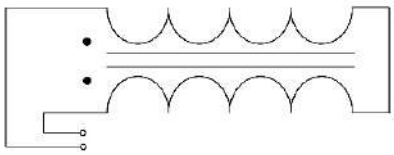
Design:
- Toroidal Ferrite Core in MnZn Material
- Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- Windings Separated
- Core insulated with UL recognised Epoxy coating
- **Customisation can be checked on request**

Applications:
- Power Electronics
- Power line input and output filter
- For filtering of devices without stable ground connection
- Radio interference suppression in motors
- Suppression of common mode noise

Insertion loss Graphs:
- Test Setup



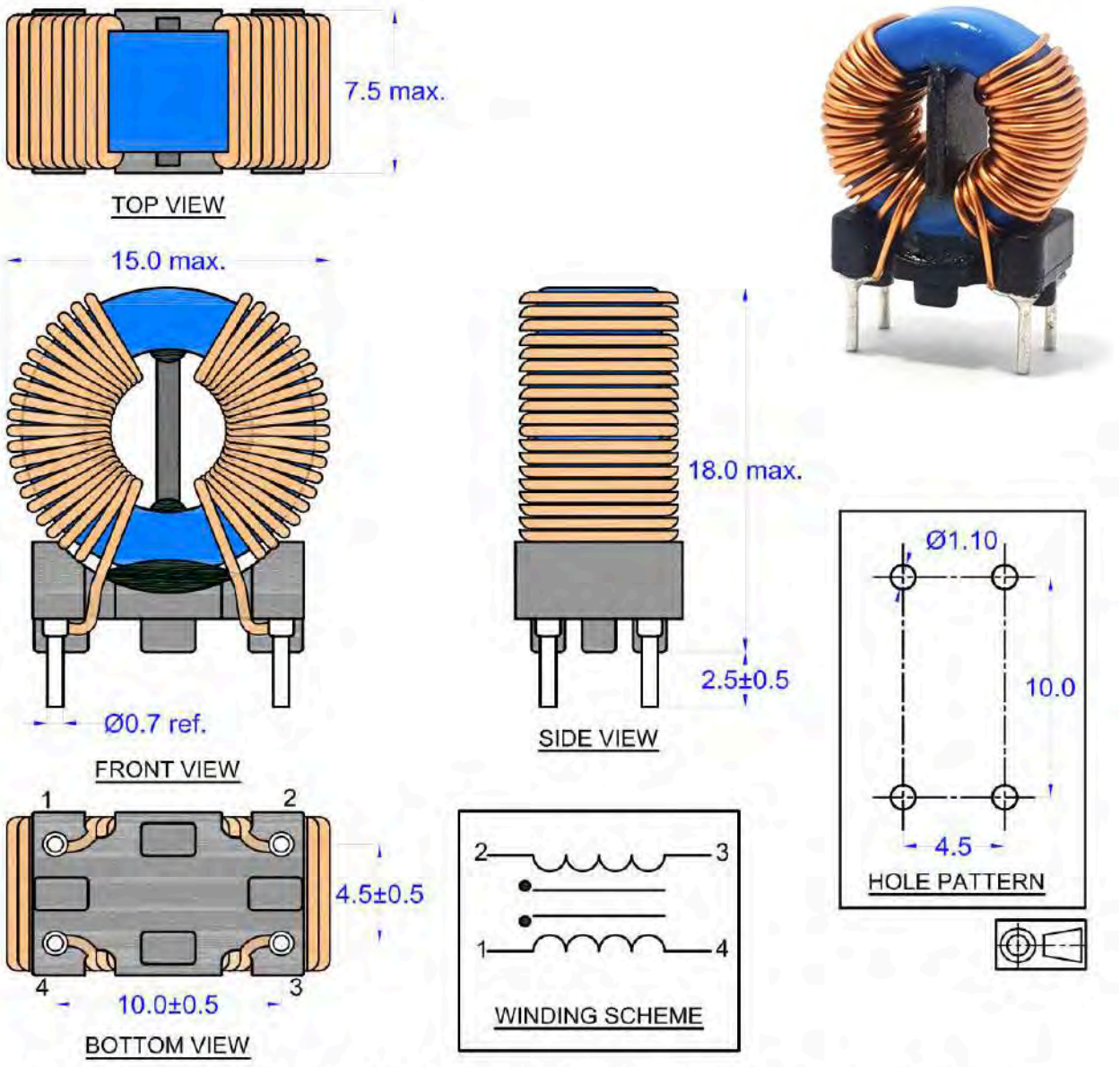
Common Mode



Differential Mode

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Drawing with Schematic:



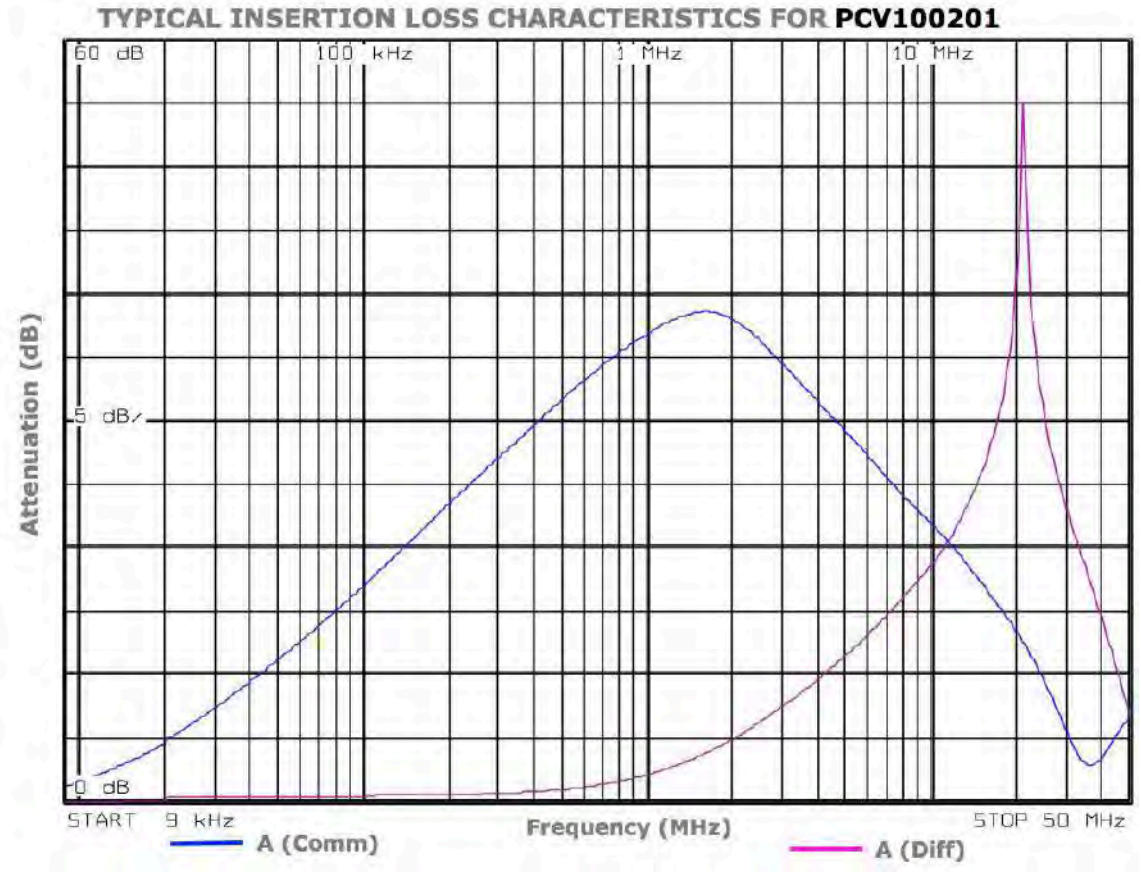
All Dimensions are in mm. Drawing is not to scale. Color shown in drawing may differ from actual.
Drawing above is a rough pictorial representation of the actual component.
There can be some shape changes in actual component but the physical dimensions indicated will match.

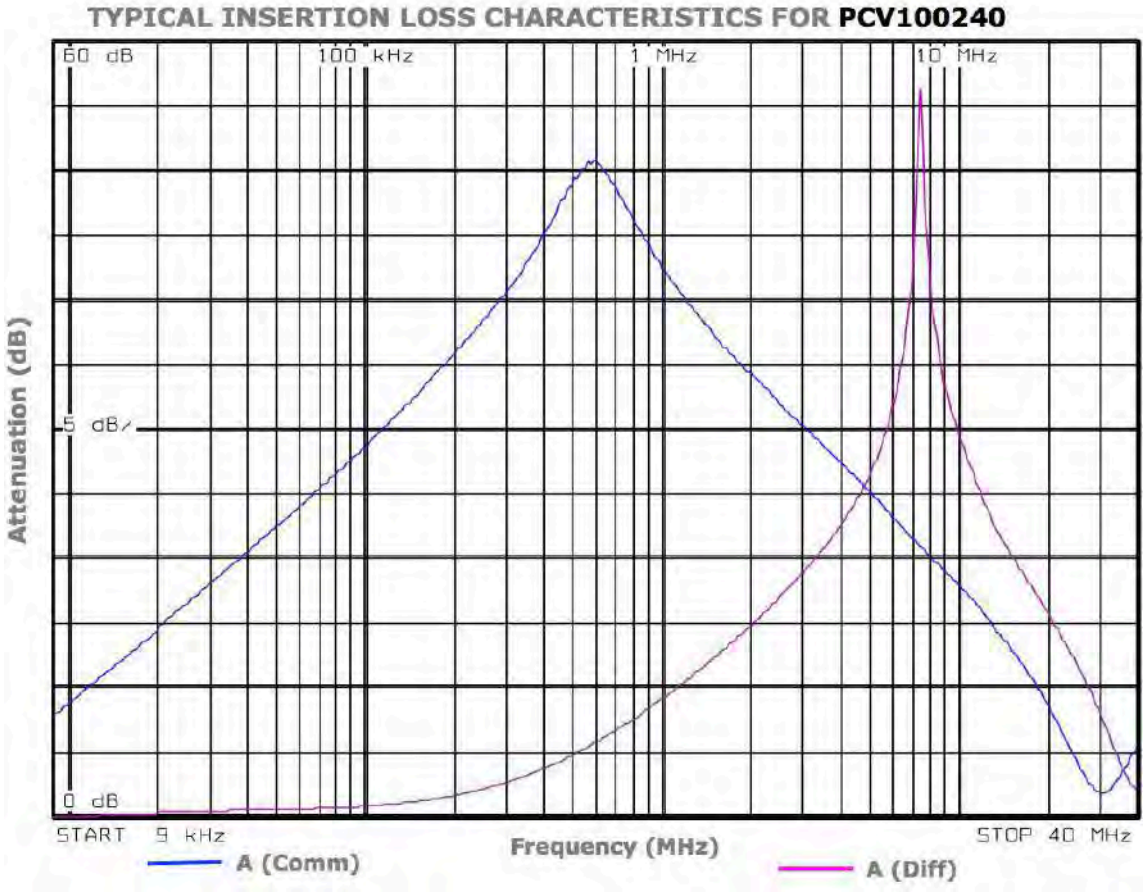
Ordering Code and Electrical Data:

Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)
PCV100201	1	-30 to +30	2.0	45	4
PCV100240	4	-30 to +30	1.5	140	4
PCV100150	5	-30 to +30	1.0	220	4
PCV100110	10	-30 to +30	0.7	350	4
PCV100120	20	-30 to +30	0.5	1000	3
PCV100039	39	-30 to +30	0.3	3000	3

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

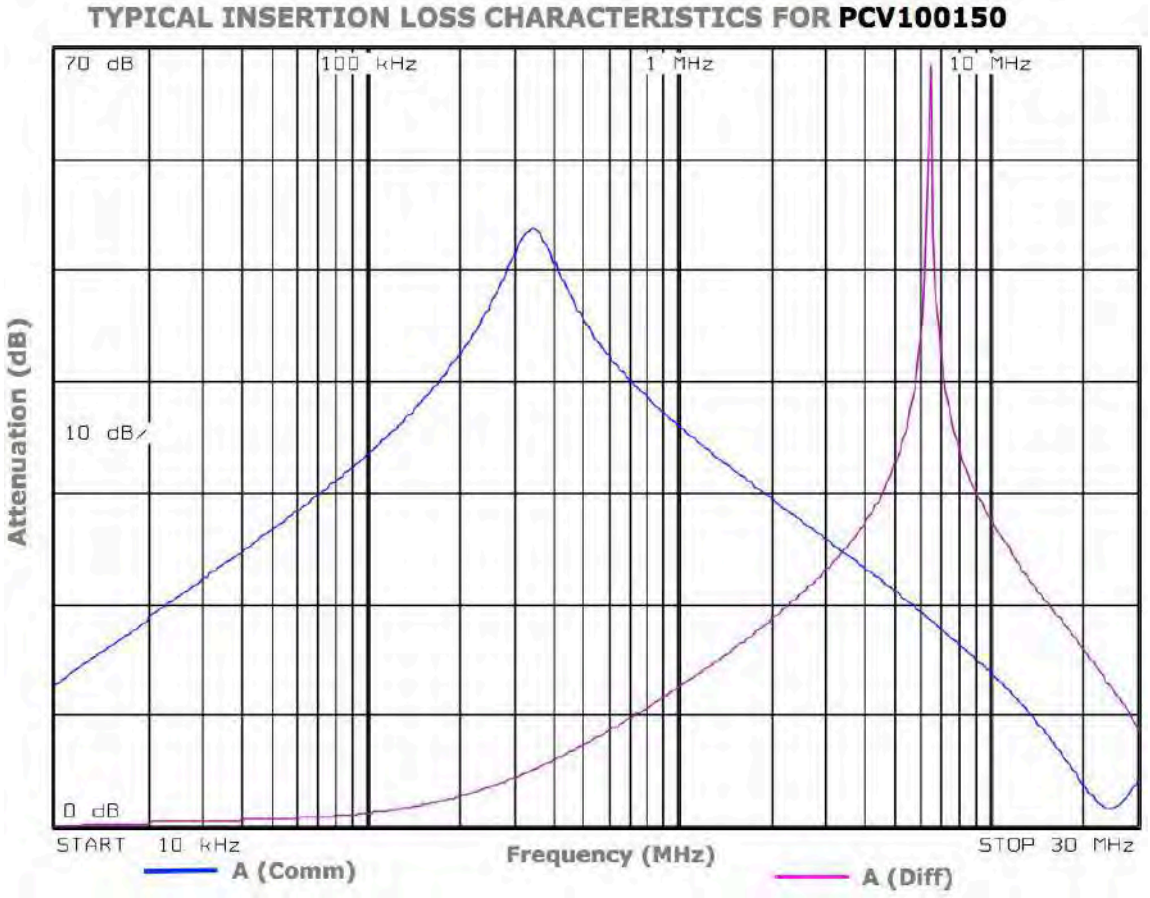
Insertion Loss Graphs:

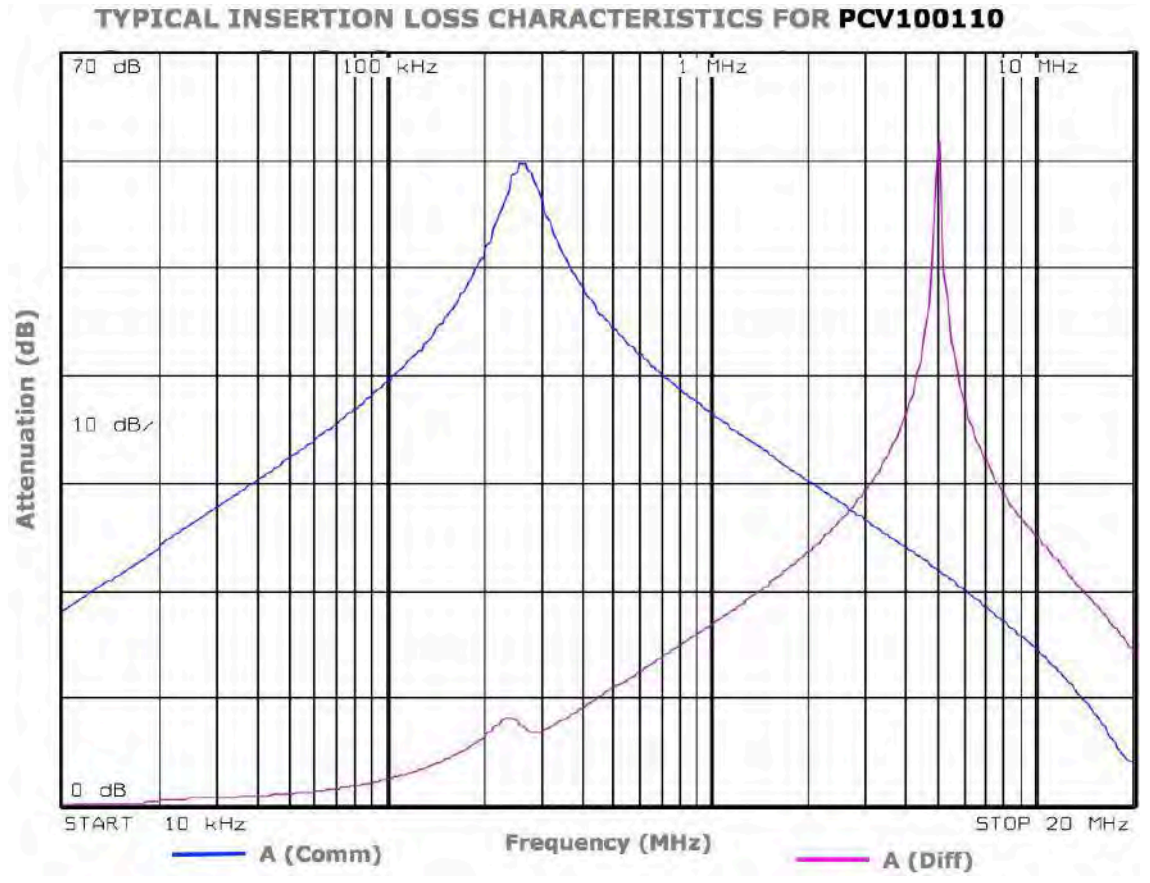




Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

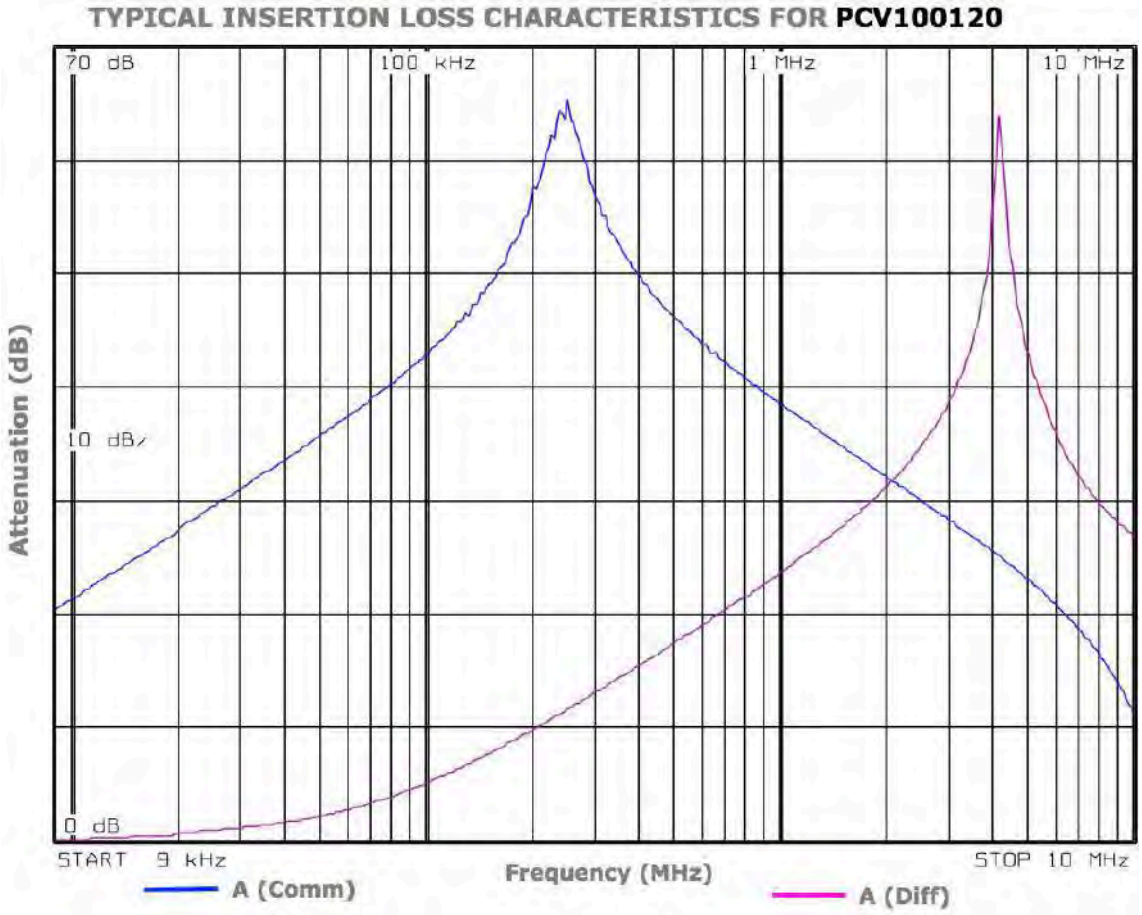
Insertion Loss Graphs:

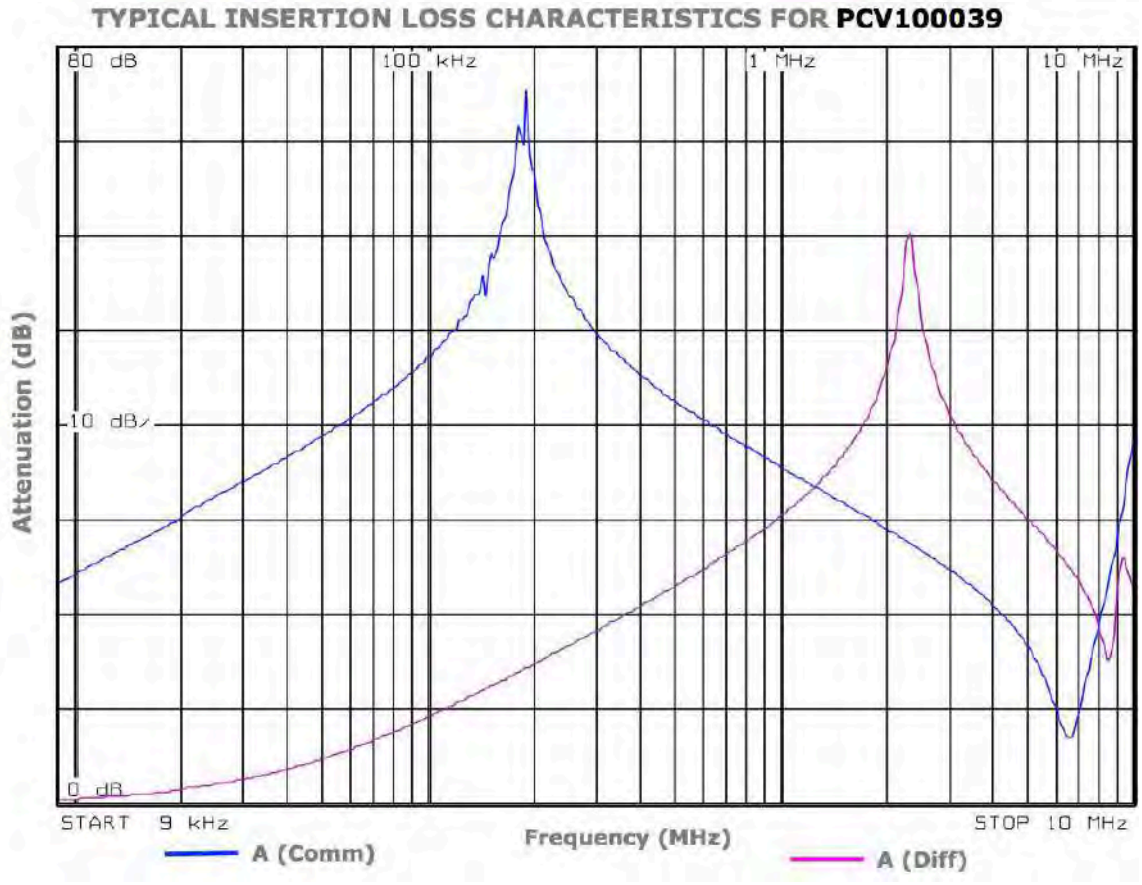




Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:





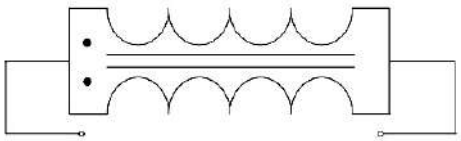
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

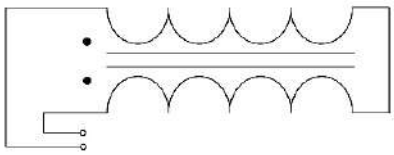
Design:
- – Toroidal Ferrite Core in MnZn Material
- – Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- – Windings Separated
- – Core insulated with UL recognised Epoxy coating
- **– Customisation can be checked on request**

Applications:
- – Power Electronics
- – Power line input and output filter
- – For filtering of devices without stable ground connection
- – Radio interference suppression in motors
- – Suppression of common mode noise

Insertion loss Graphs: – Test Setup



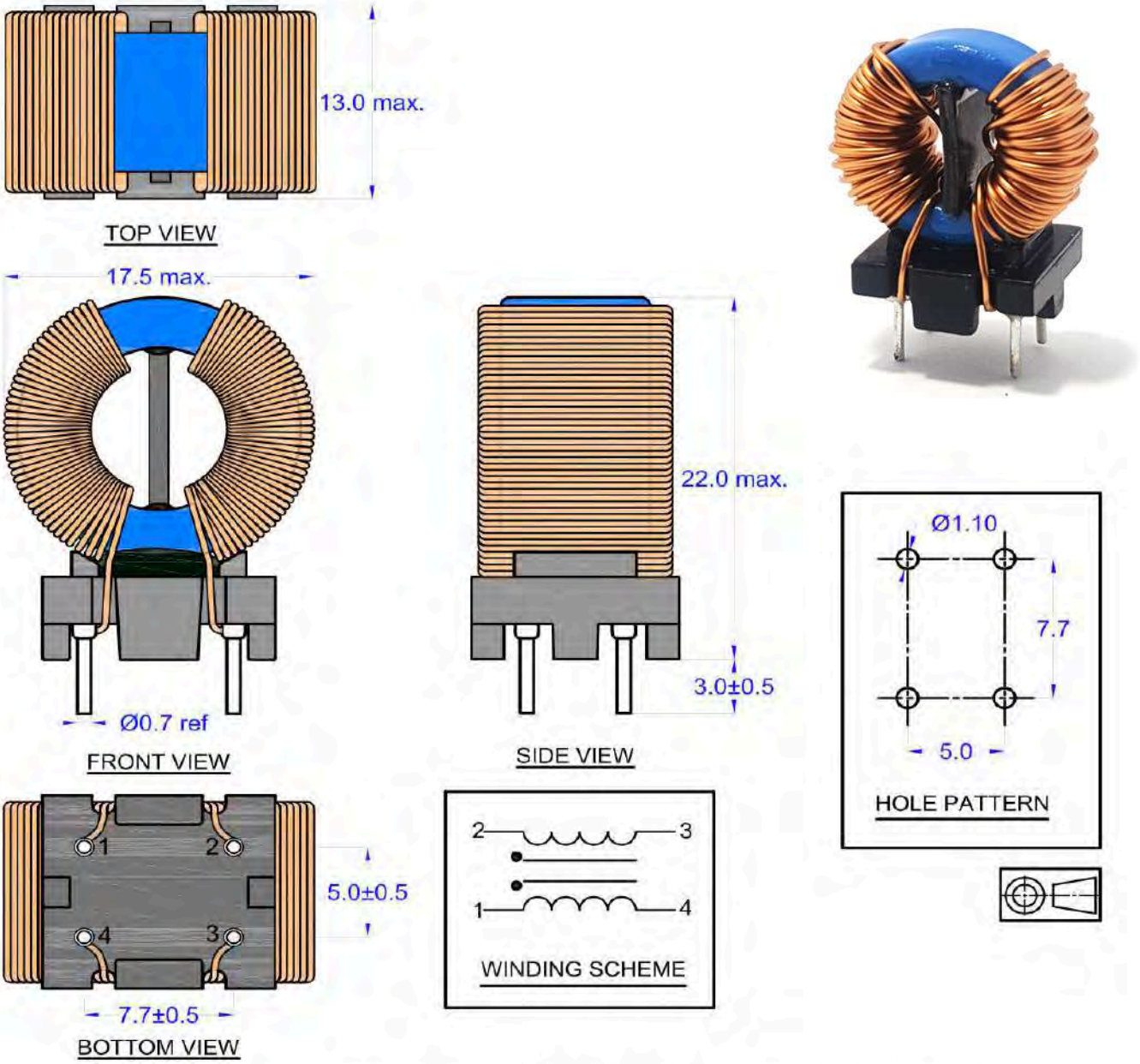
Common Mode



Differential Mode

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Drawing with Schematic:



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Drawing above is a rough pictorial representation of the actual component.
There can be some shape changes in actual component but the physical dimensions indicated will match.

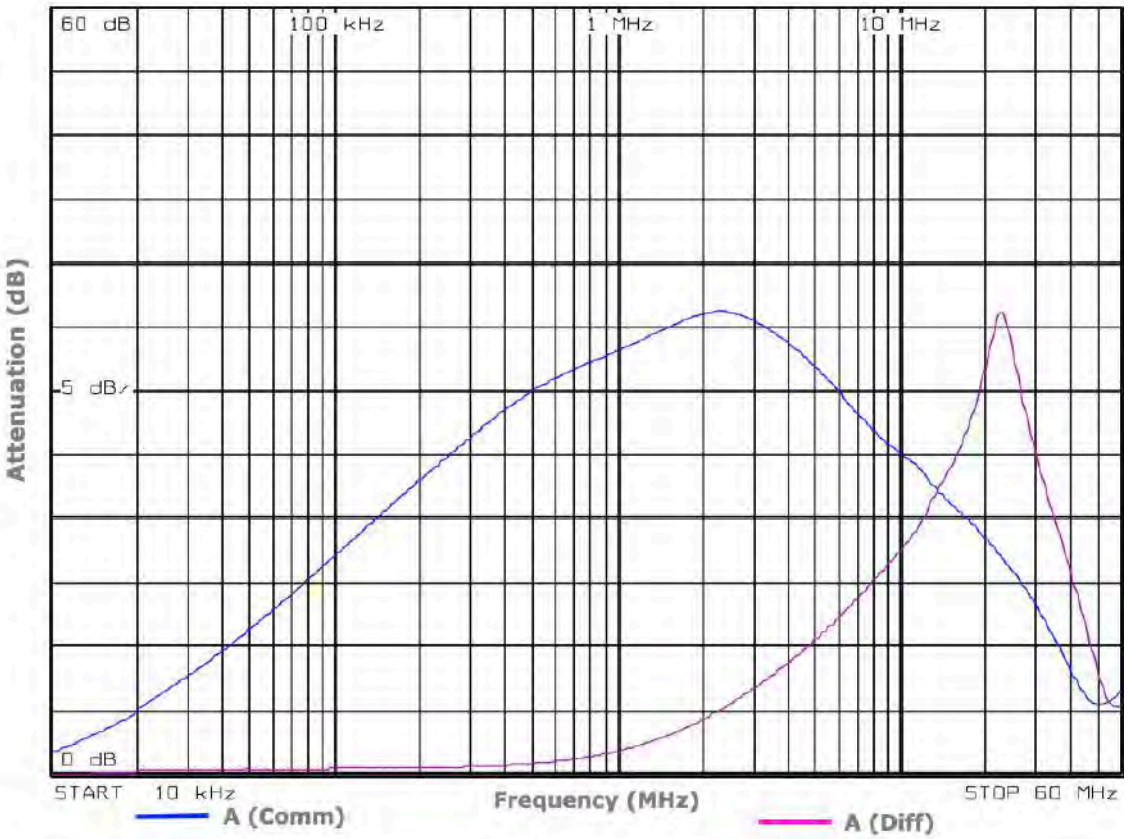
Ordering Code and Electrical Data:

Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)
PCV110301	1.0	-30 to +30	3.0	35	4
PCV110222	2.2	-30 to +30	2.0	70	5
PCV110233	3.3	-30 to +30	1.5	120	5
PCV110110	10.0	-30 to +30	1.0	360	5
PCV110120	20.0	-30 to +30	0.5	540	7

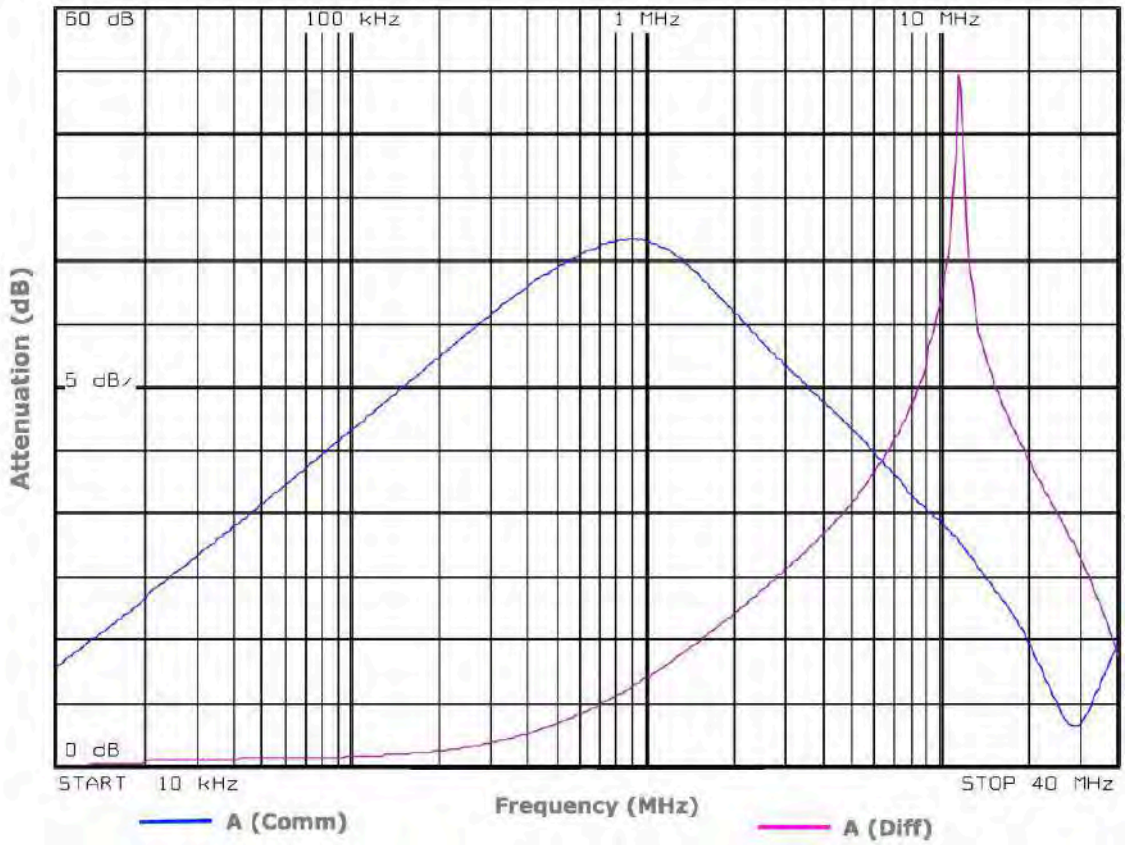
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV110301**

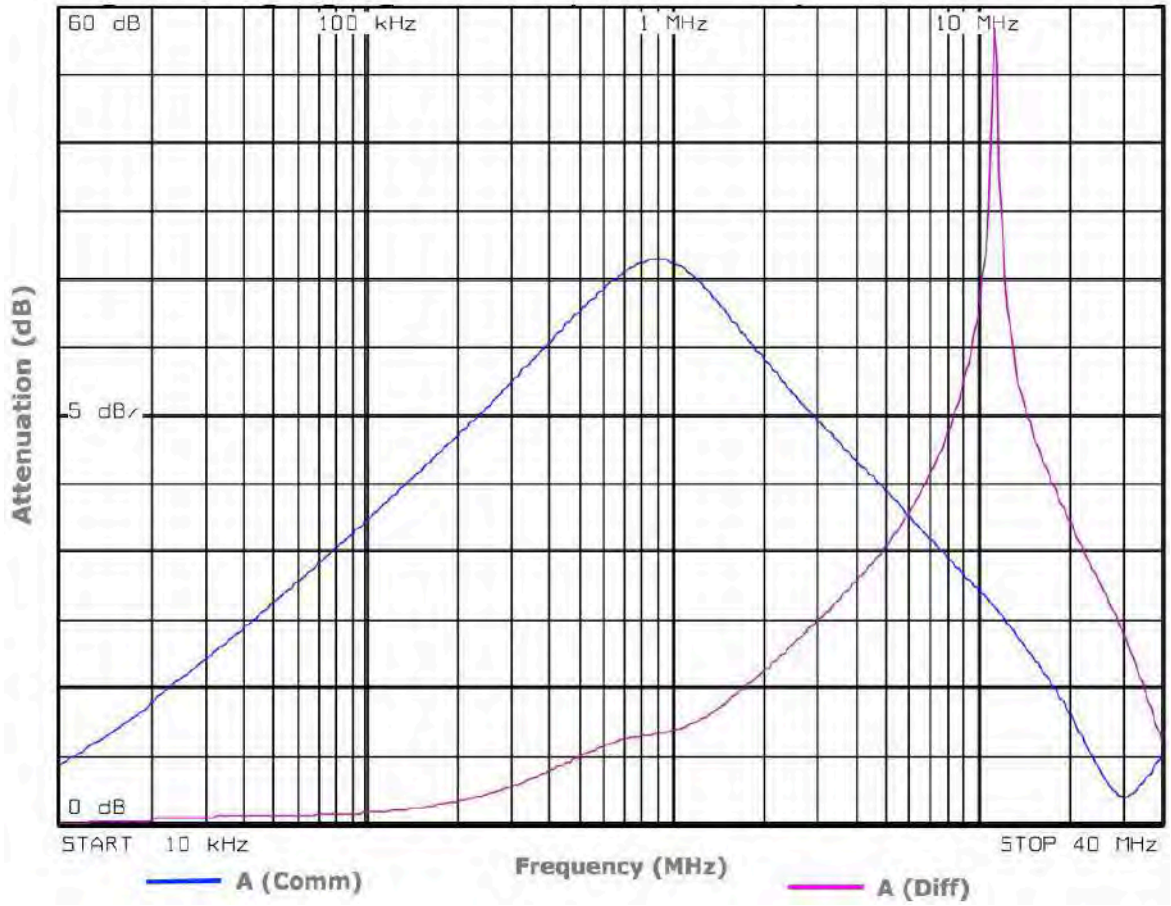


TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV110222**

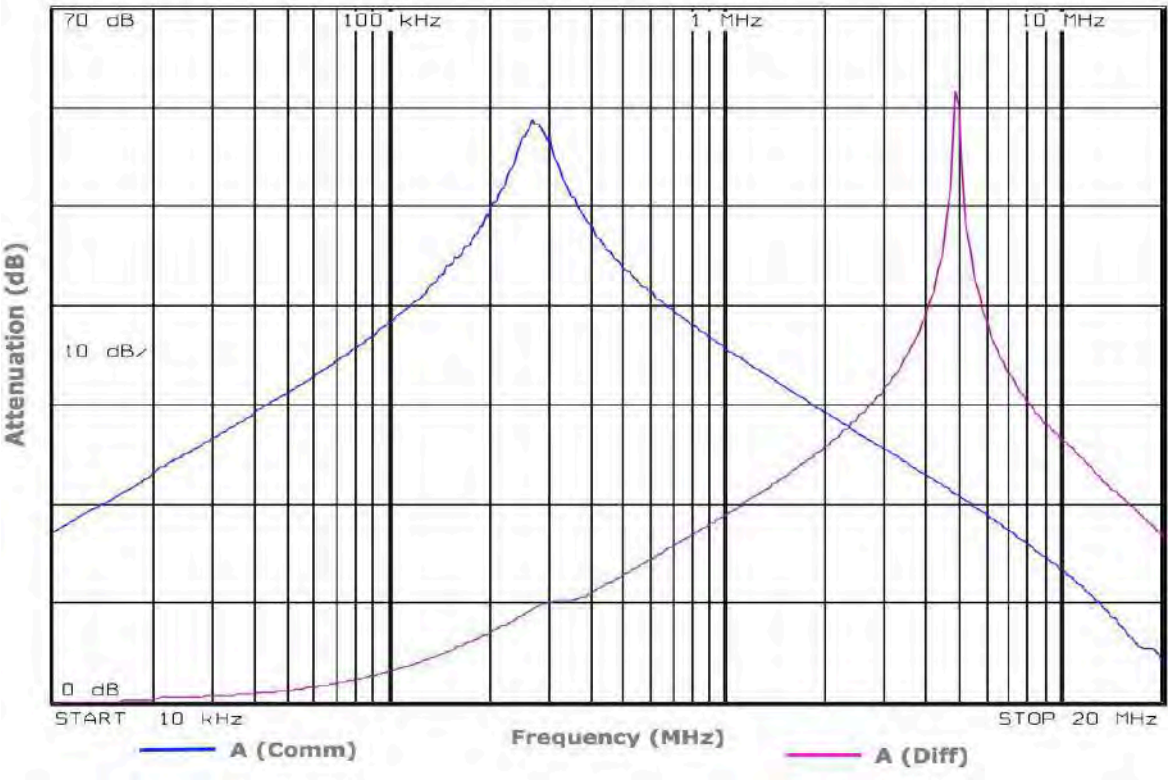


Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV110233**

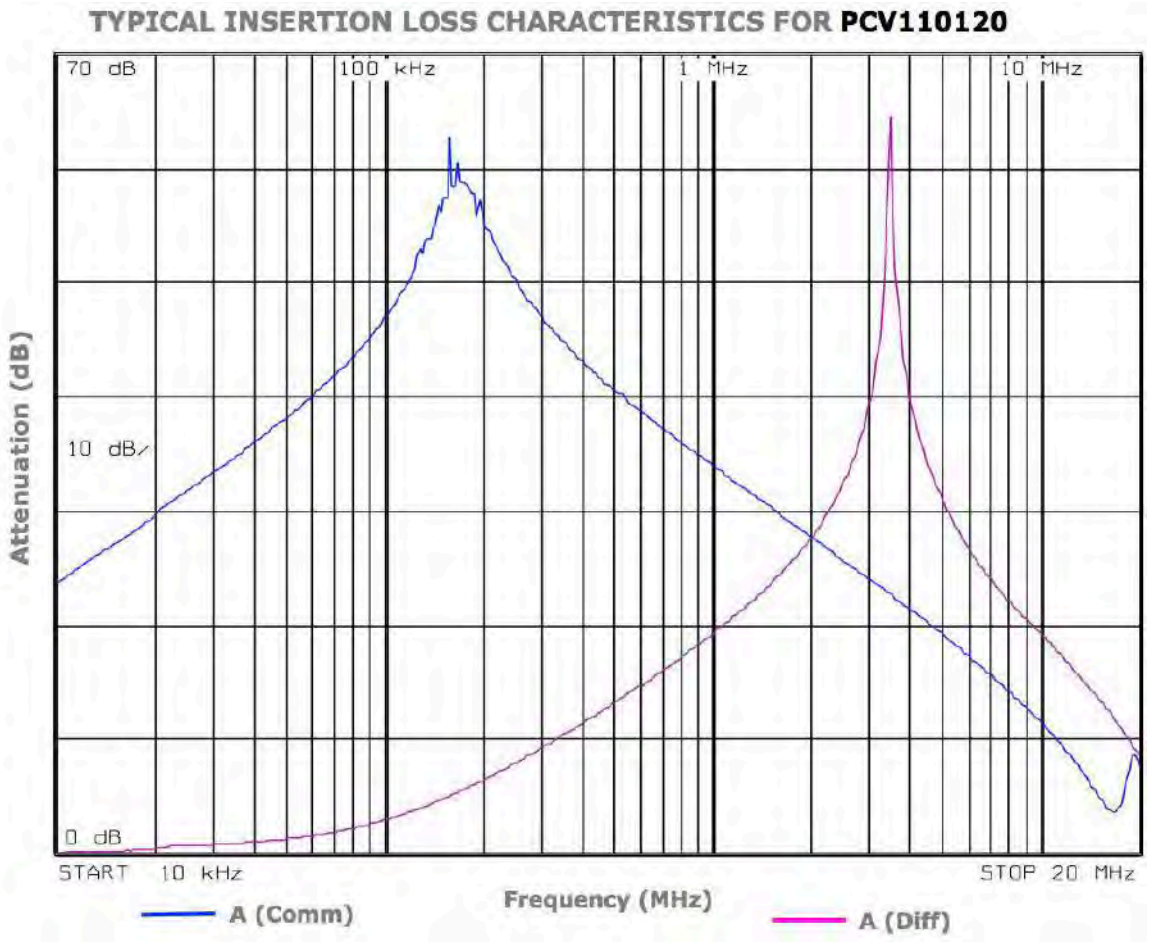


TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV110110**



Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:



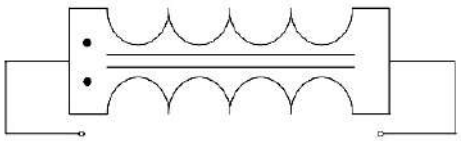
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

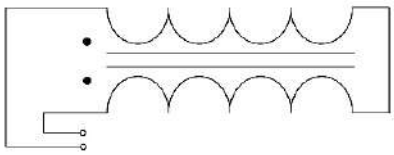
Design:
- Toroidal Ferrite Core in MnZn Material
- Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- Windings Separated
- Core insulated with UL recognised Epoxy coating
- **Customisation can be checked on request**

Applications:
- Power Electronics
- Power line input and output filter
- For filtering of devices without stable ground connection
- Radio interference suppression in motors
- Suppression of common mode noise

Insertion loss Graphs:
- Test Setup



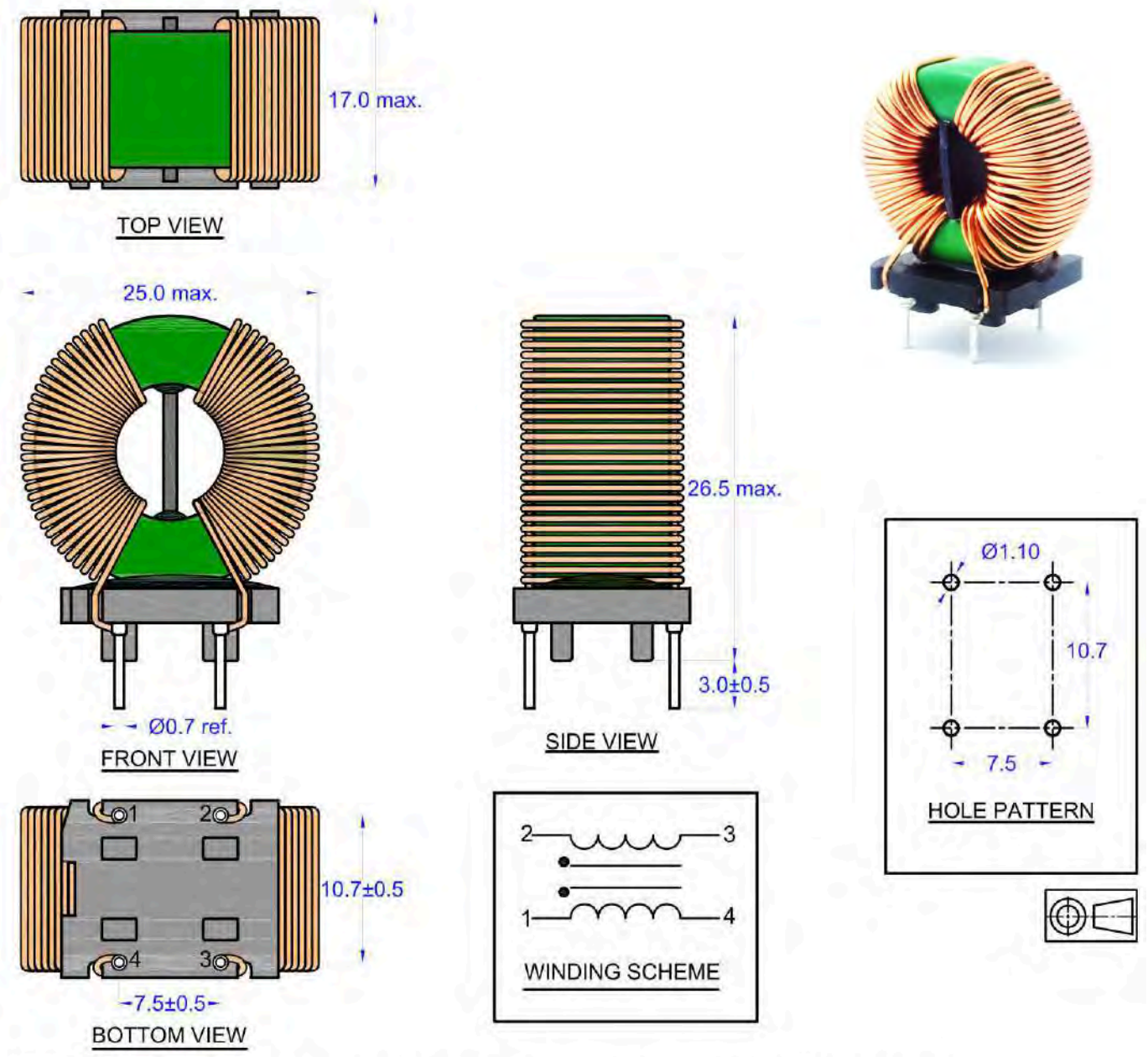
Common Mode



Differential Mode

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Drawing with Schematic:



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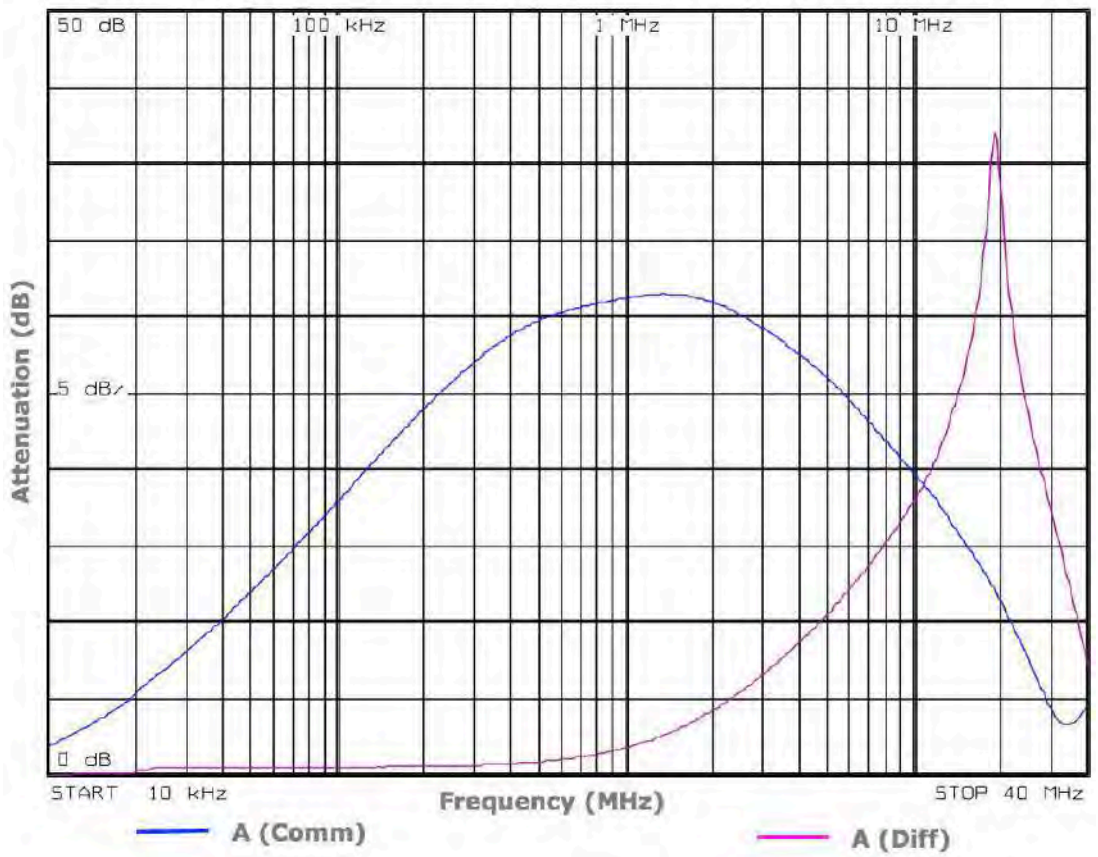
Ordering Code and Electrical Data:

Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)
PCV120601	1.0	-30 to +30	6.0	13	15
PCV120422	2.2	-30 to +30	4.0	30	14
PCV120333	3.3	-30 to +30	2.5	60	14
PCV120305	5.0	-30 to +30	2.5	95	14
PCV120210	10.0	-30 to +30	2.0	125	14
PCV120220	20.0	-30 to +30	1.5	270	14

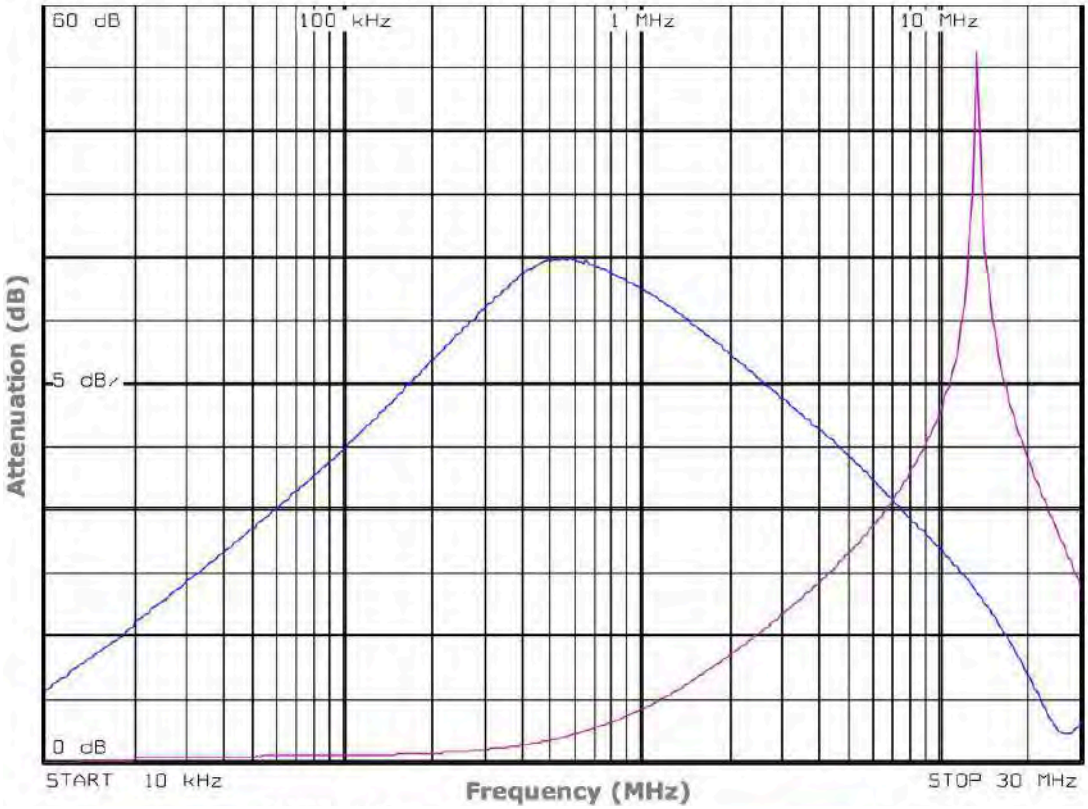
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV120601**

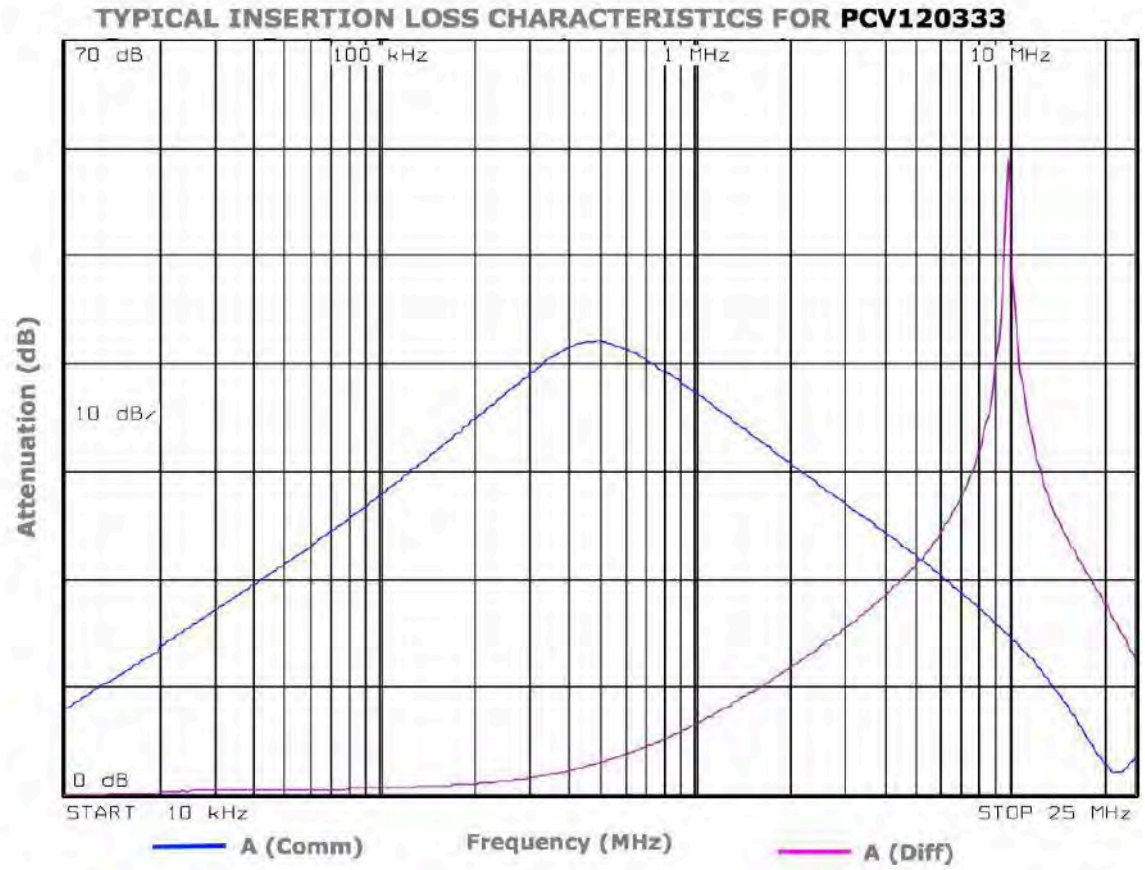


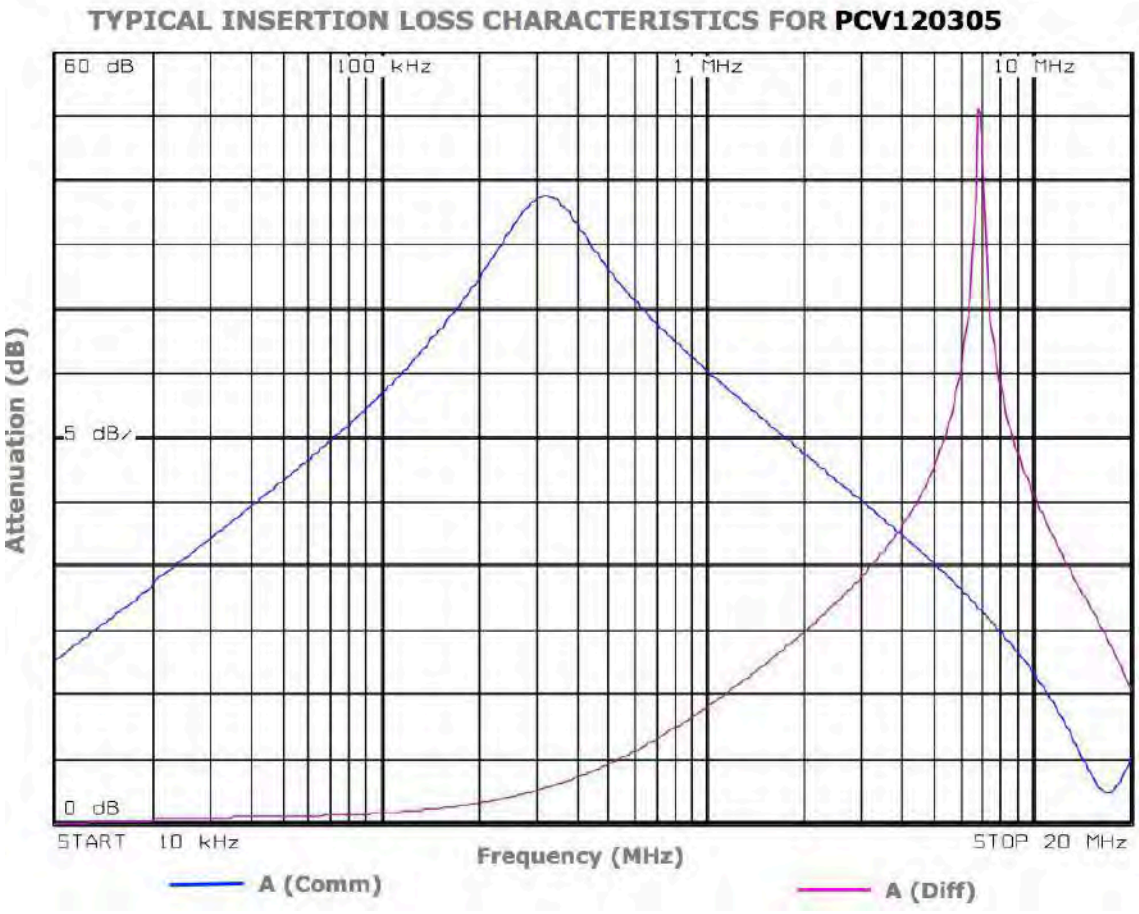
TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV120422**



Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:

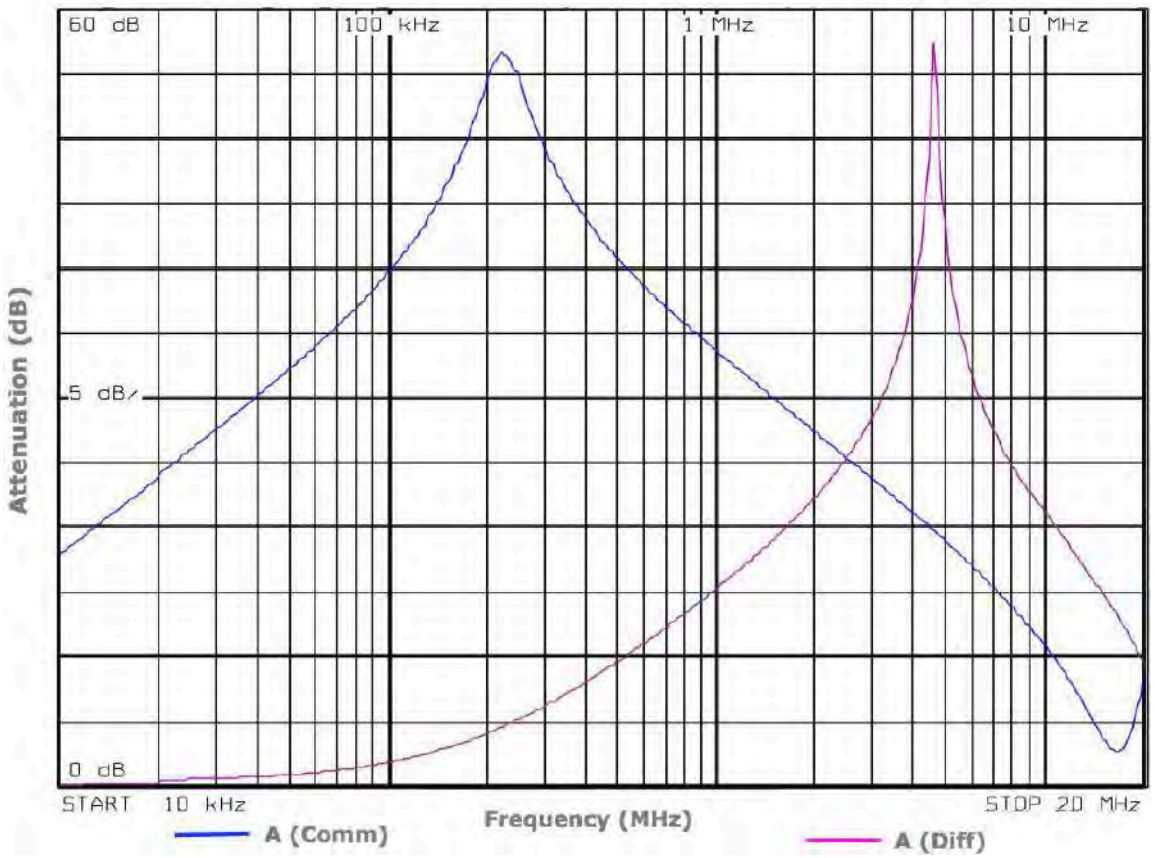




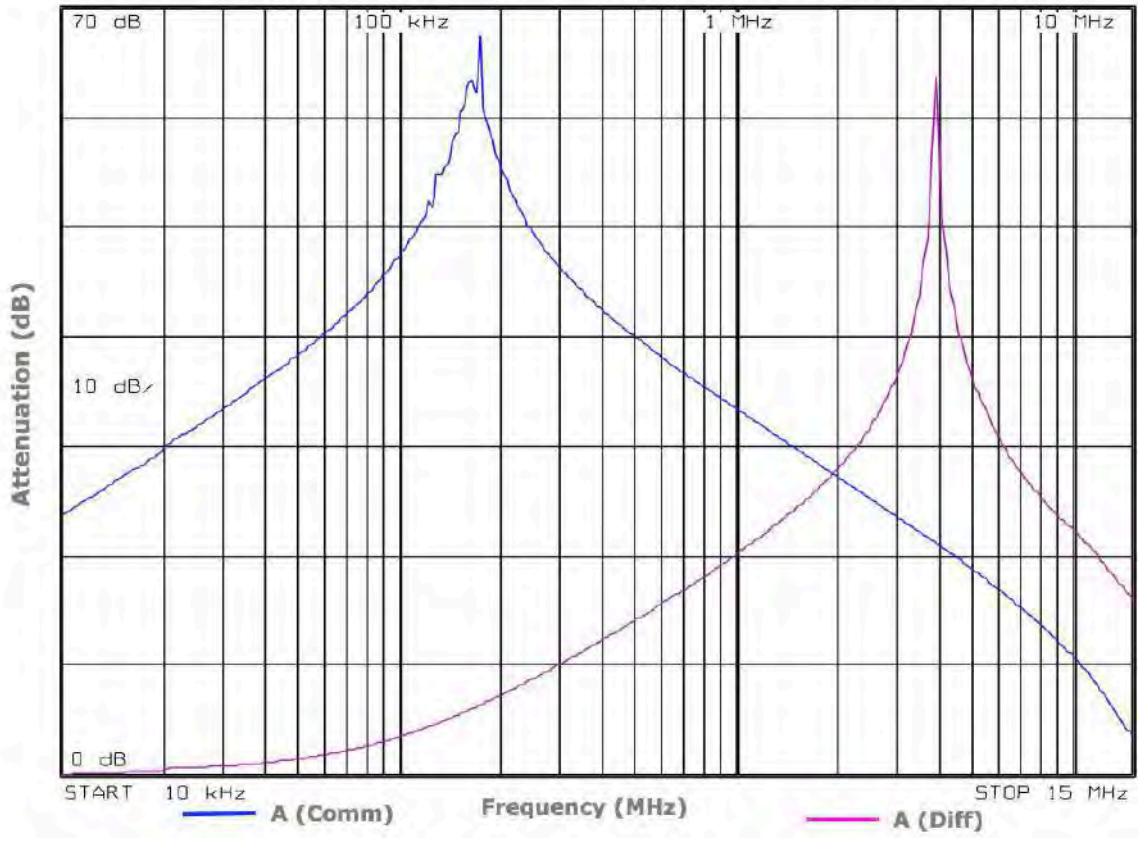
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV120210**



TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV120220**



Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

Design:
- Toroidal Ferrite Core in MnZn Material
- Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
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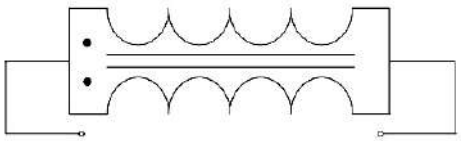
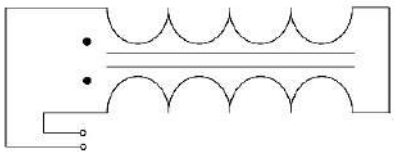
- Core insulated with UL recognised Epoxy coating
- **Customisation can be checked on request**

Applications:
- Power Electronics
- Power line input and output filter
- For filtering of devices without stable ground connection
- Radio interference suppression in motors
- Suppression of common mode noise

Insertion loss Graphs:
- Test Setup



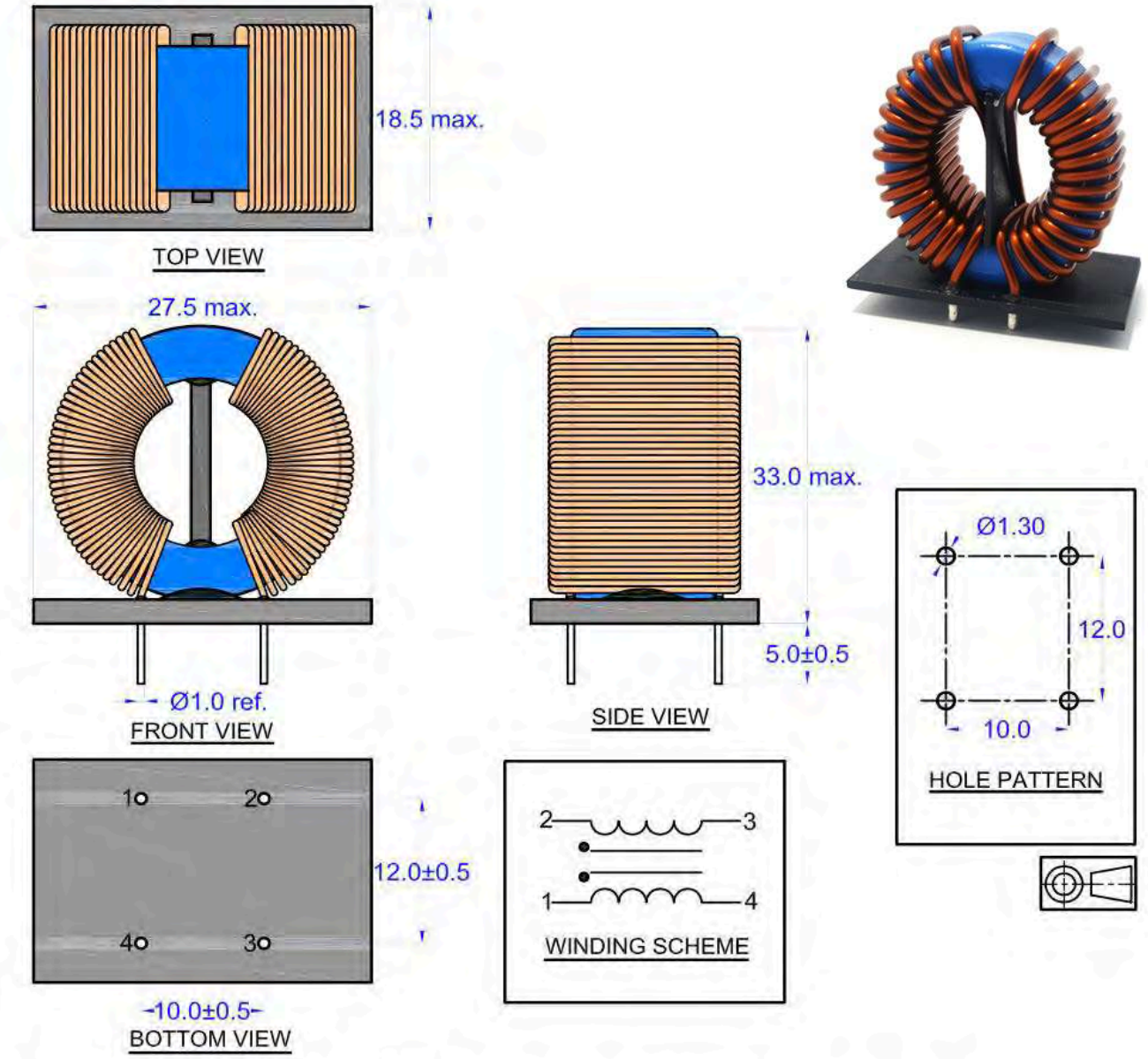
Common Mode



Differential Mode

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Drawing with Schematic:



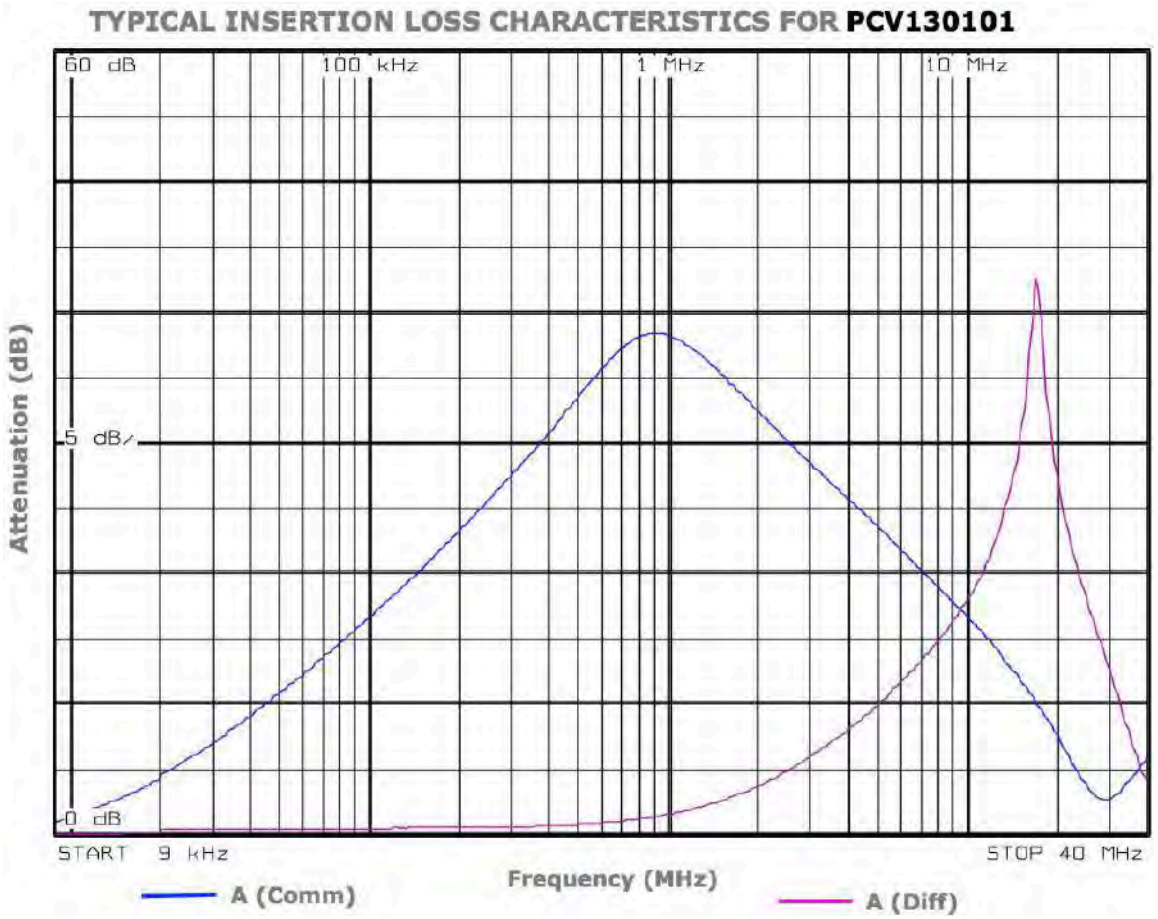
All Dimensions are in mm. Drawing is not to scale. Color shown in drawing may differ from actual.
Drawing above is a rough pictorial representation of the actual component.
There can be some shape changes in actual component but the physical dimensions indicated will match.

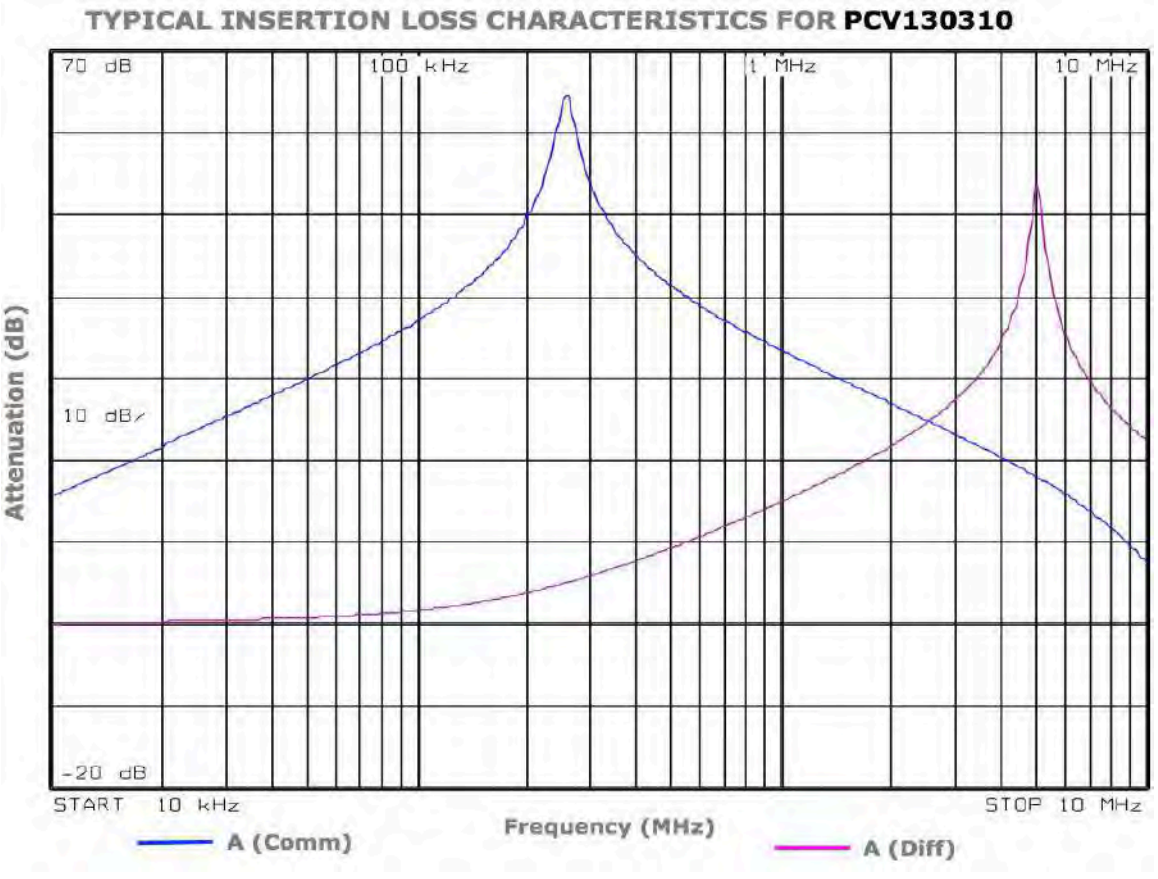
Ordering Code and Electrical Data:

Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)
PCV130101	1.0	-30 to +50	10	7	33
PCV130310	10.0	-30 to +50	3	105	22
PCV130220	20.0	-30 to +50	2	220	23

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

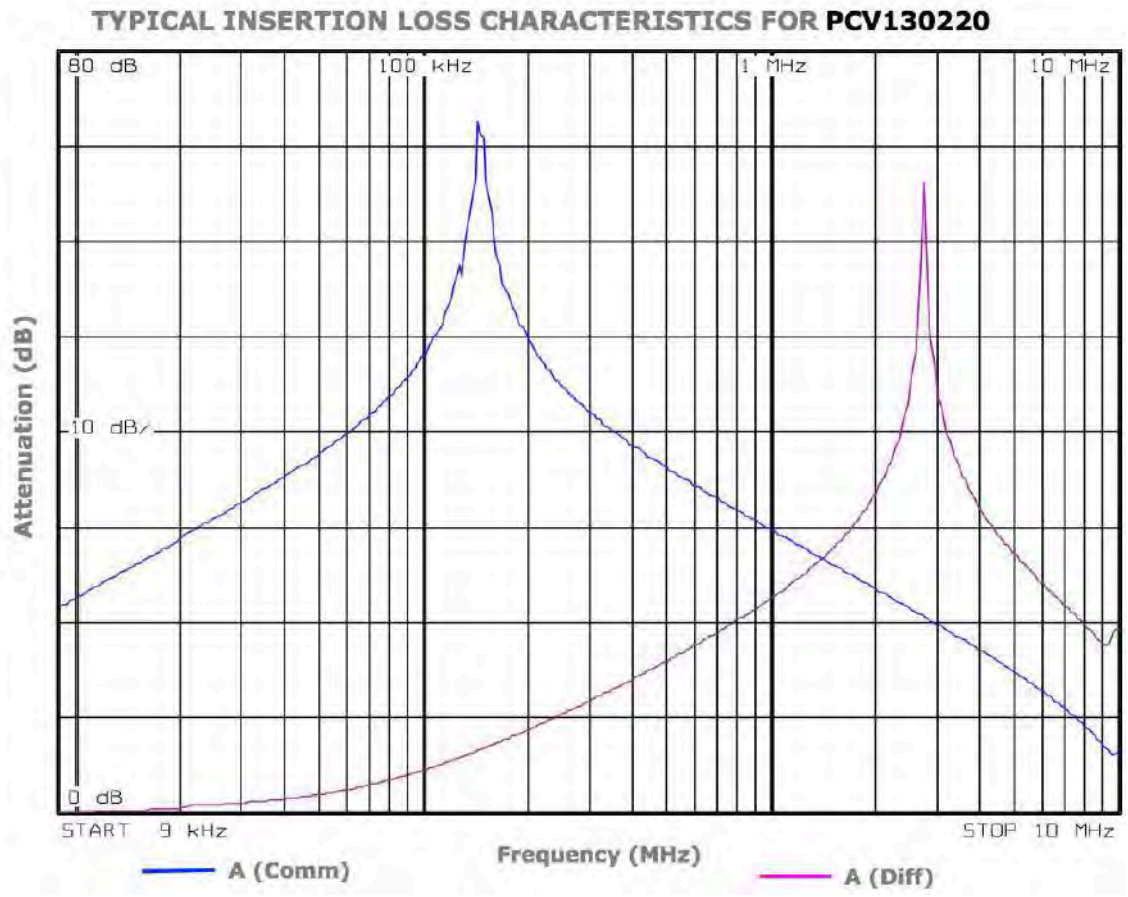
Insertion Loss Graphs:





Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:



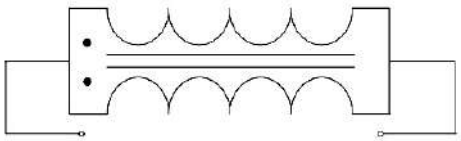
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

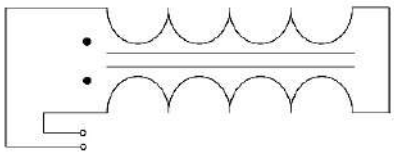
Design:
- Toroidal Ferrite Core in MnZn Material
- Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- Windings Separated
- Core insulated with UL recognised Epoxy coating
- **Customisation can be checked on request**

Applications:
- Power Electronics
- Power line input and output filter
- For filtering of devices without stable ground connection
- Radio interference suppression in motors
- Suppression of common mode noise

Insertion loss Graphs:
- Test Setup



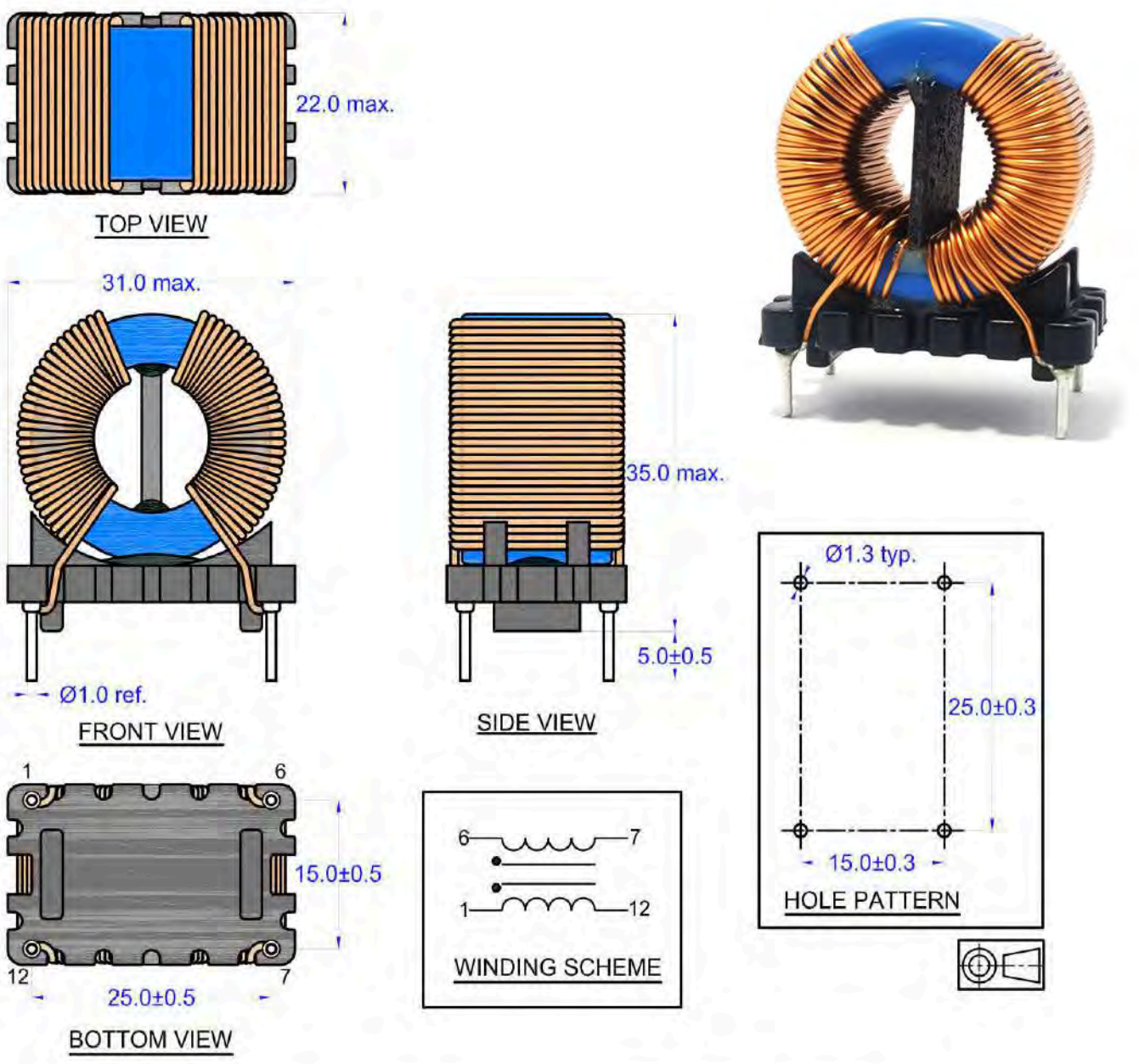
Common Mode



Differential Mode

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Drawing with Schematic:



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Drawing above is a rough pictorial representation of the actual component.
There can be some shape changes in actual component but the physical dimensions indicated will match.

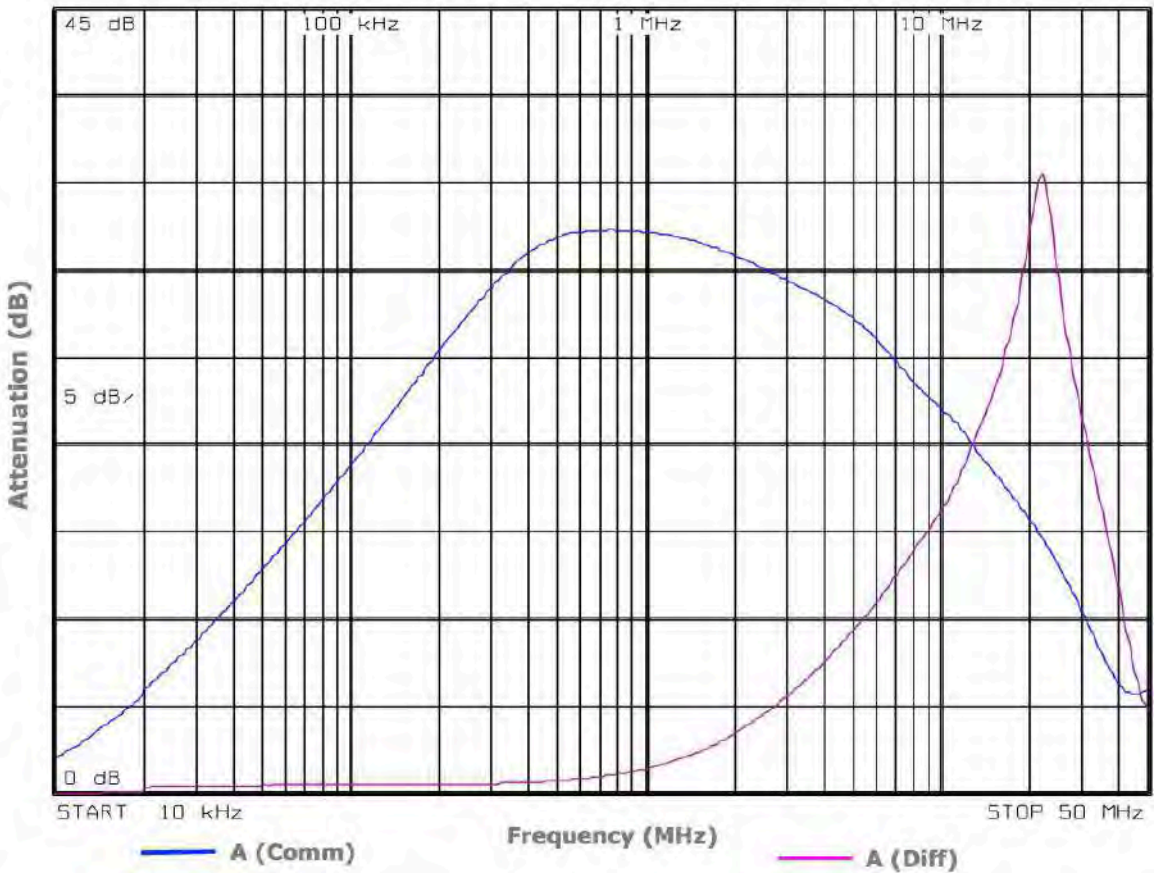
Ordering Code and Electrical Data:

Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)
PCV140201	1.0	-30 to +30	12	9	39
PCV140022	2.2	-30 to +30	8	14	41
PCV140033	3.3	-30 to +30	6	25	39
PCV140605	5.0	-30 to +30	6	45	36
PCV140320	20.0	-30 to +30	3	160	37
PCV140433	33.0	-30 to +30	3	210	41

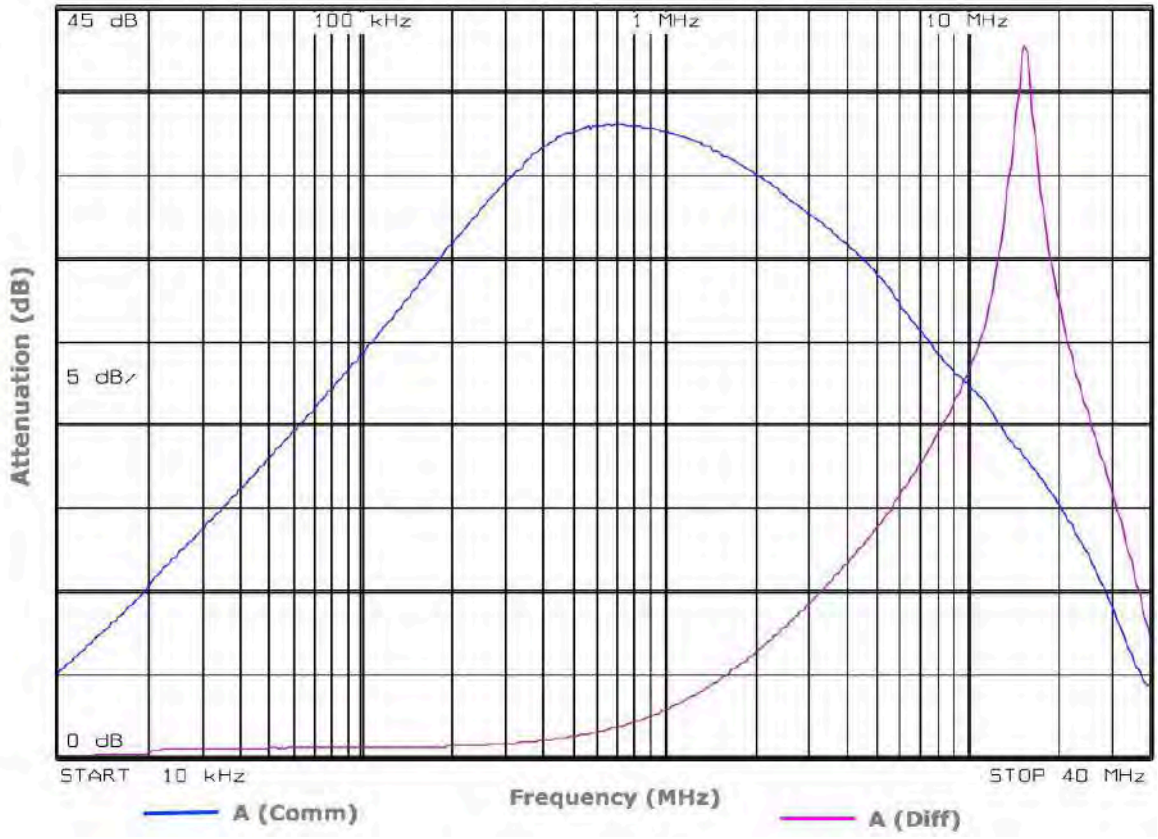
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV140201**



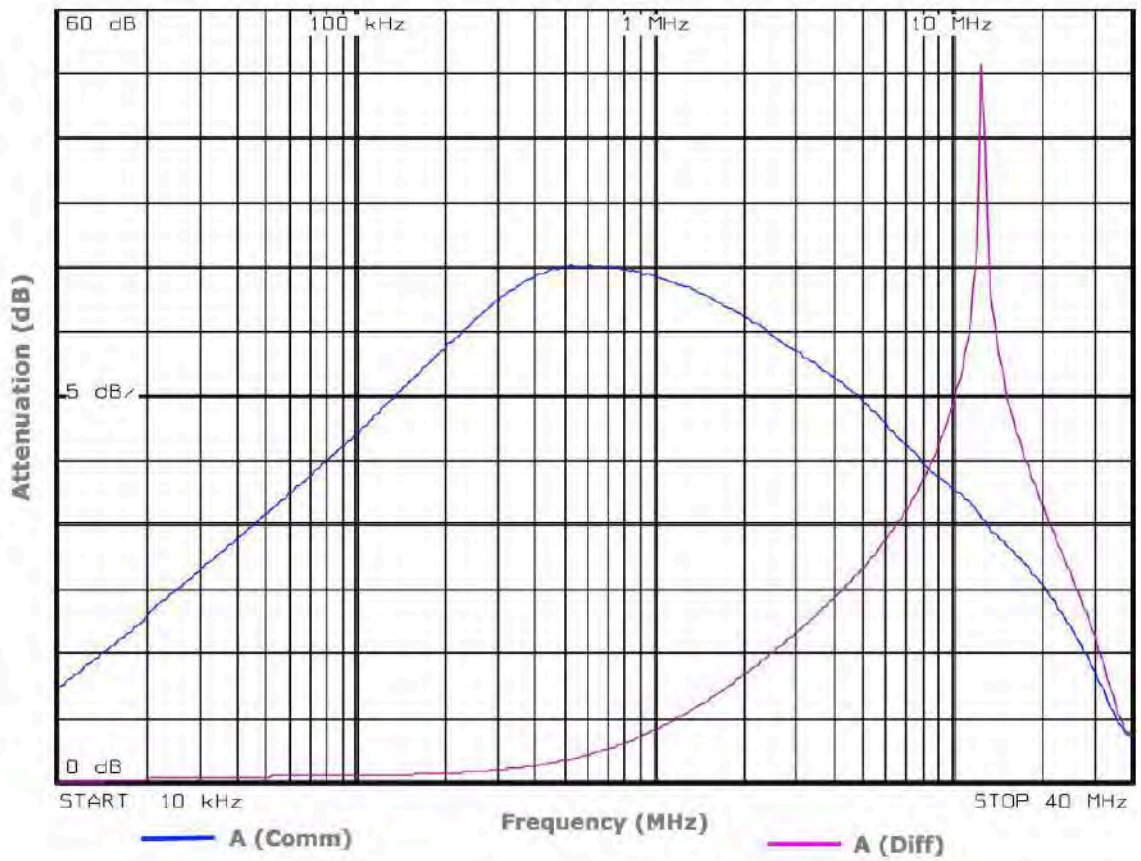
TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV140022**



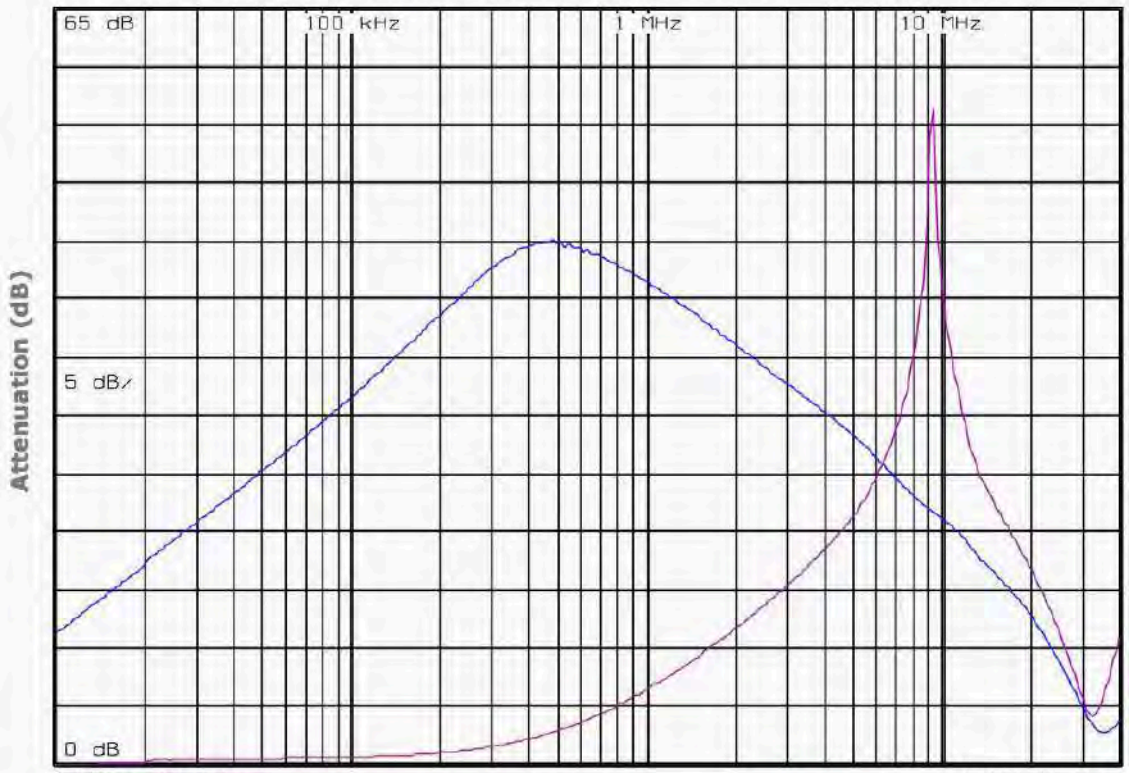
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV140033**



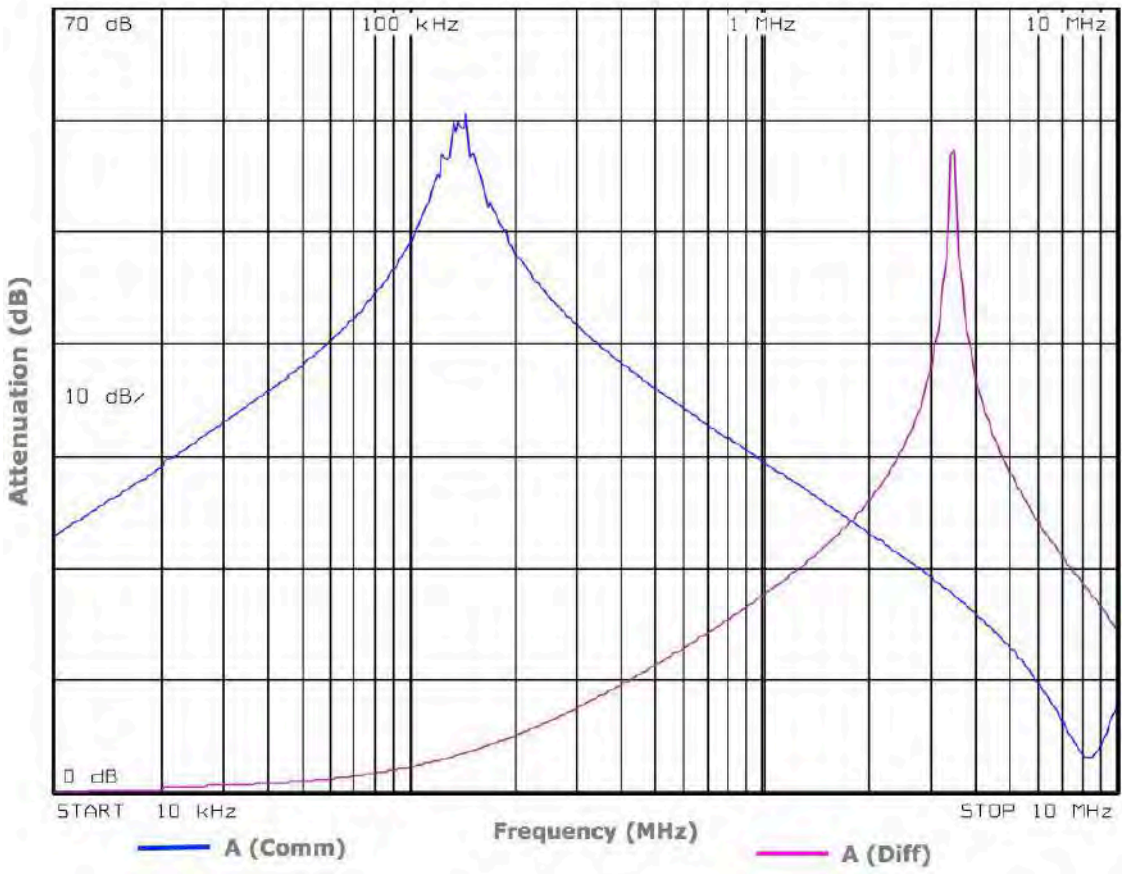
TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV140605**



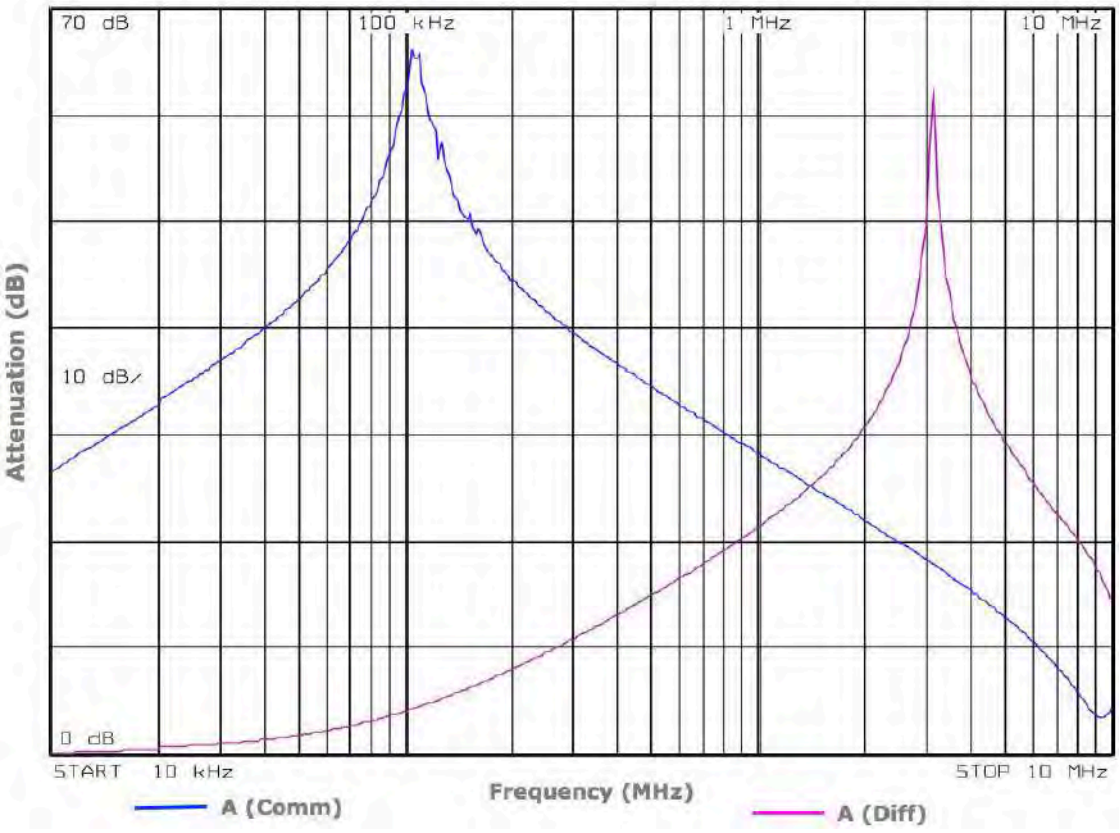
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV140320**



TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV140433**



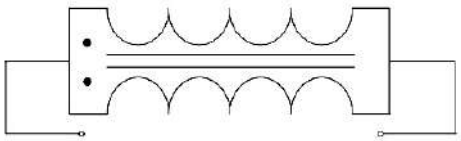
Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

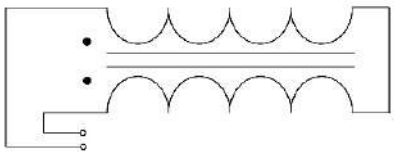
Design:
- Toroidal Ferrite Core in MnZn Material
- Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- Windings Separated
- Core insulated with UL recognised Epoxy coating
- **Customisation can be checked on request**

Applications:
- Power Electronics
- Power line input and output filter
- For filtering of devices without stable ground connection
- Radio interference suppression in motors
- Suppression of common mode noise

Insertion loss Graphs:
- Test Setup



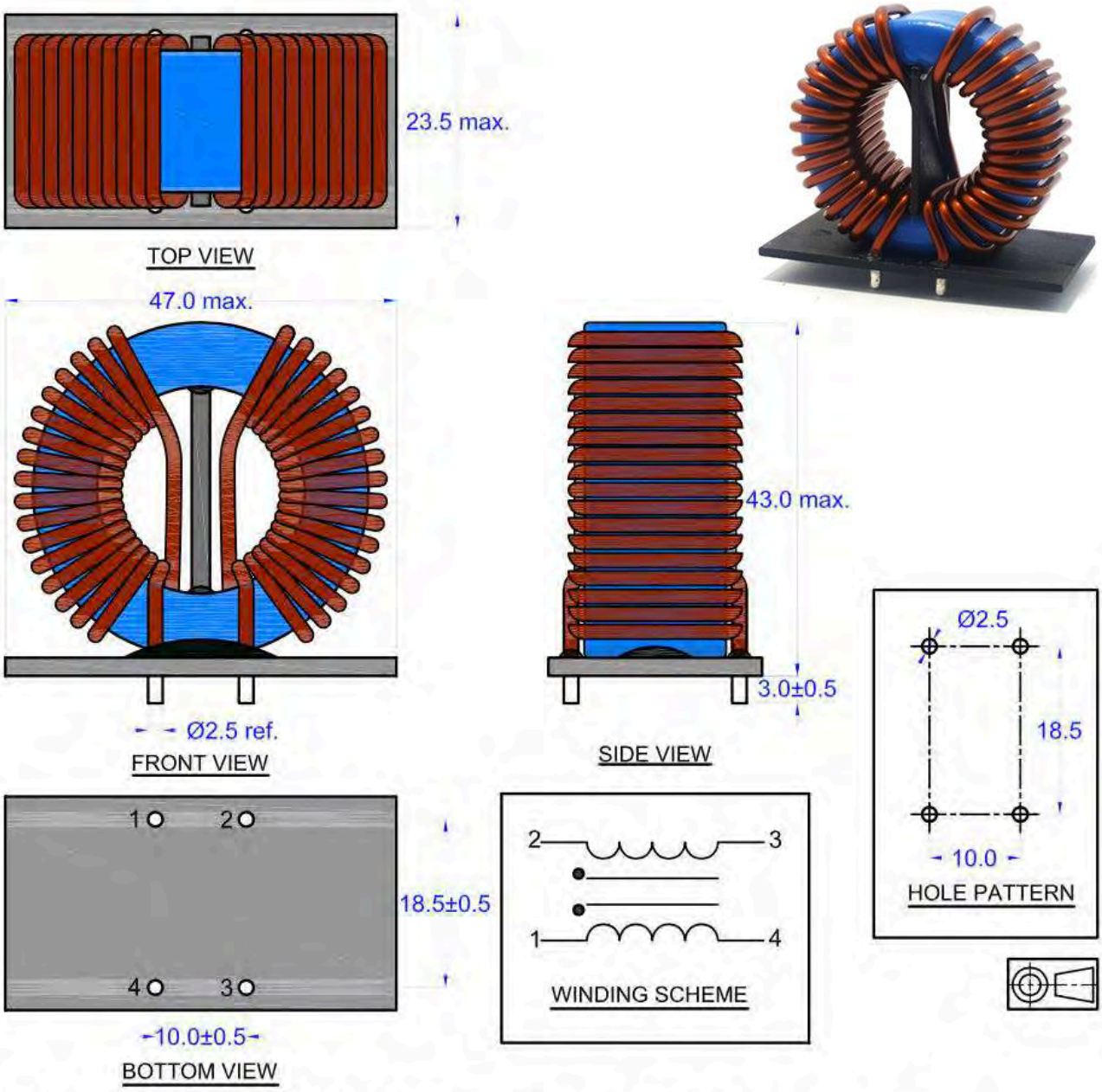
Common Mode



Differential Mode

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type

Drawing with Schematic:



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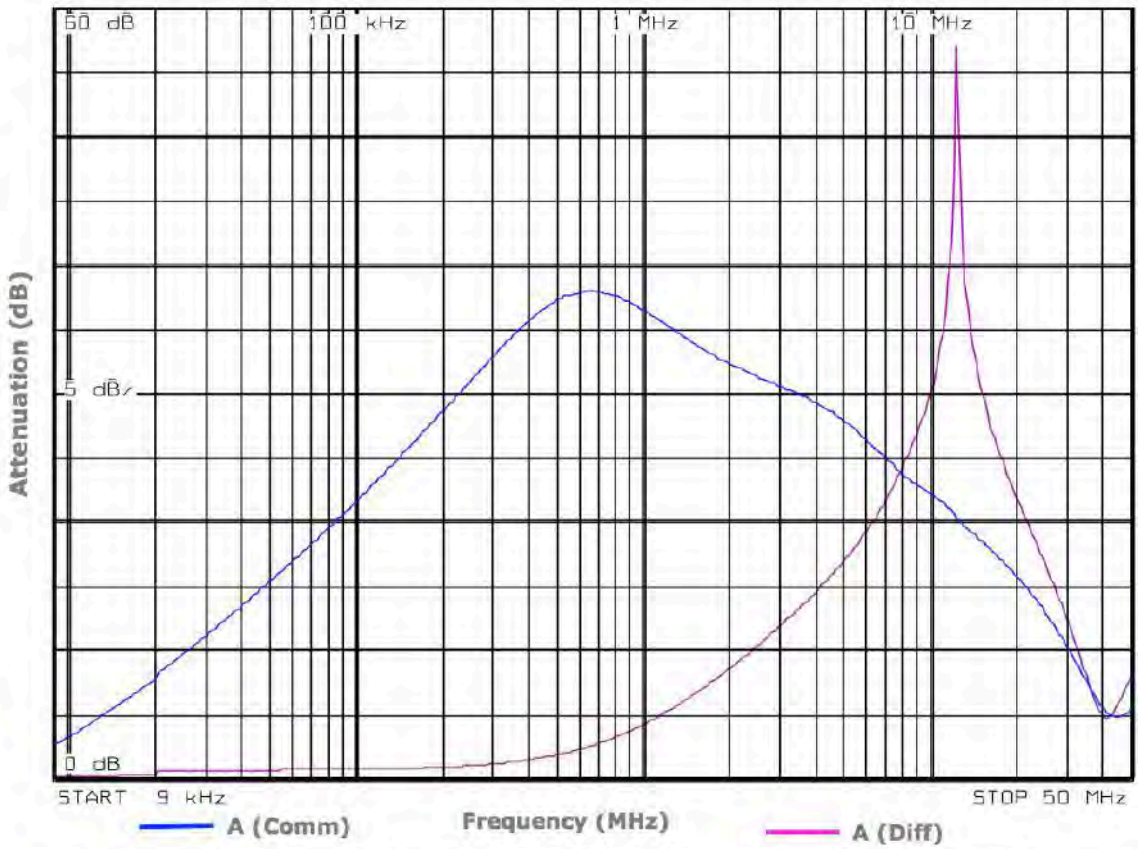
Ordering Code and Electrical Data:

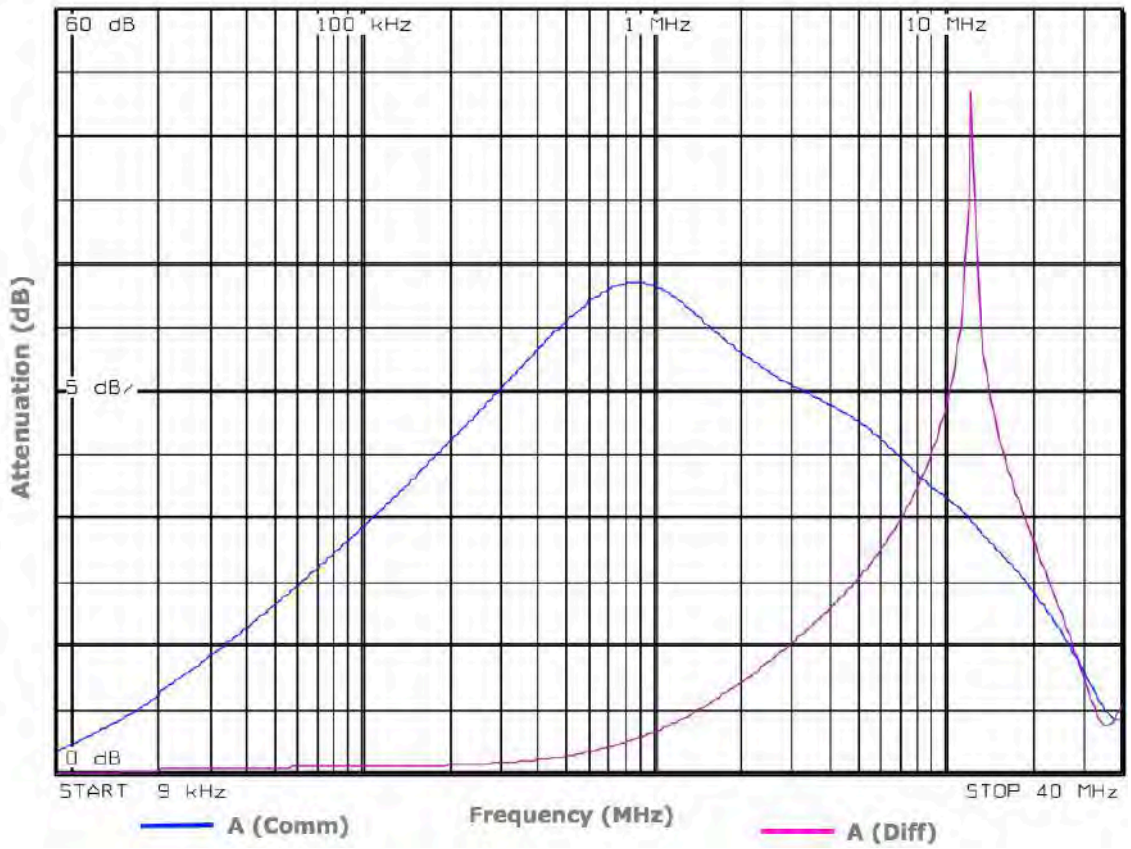
Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)
PCV150505	0.5	-30 to +30	35	2.3	82
PCV150510	1.0	-30 to +30	25	4.5	80
PCV150013	1.3	-30 to +30	20	6.2	78
PCV150418	1.8	-30 to +30	14	9.5	69

Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV150505**

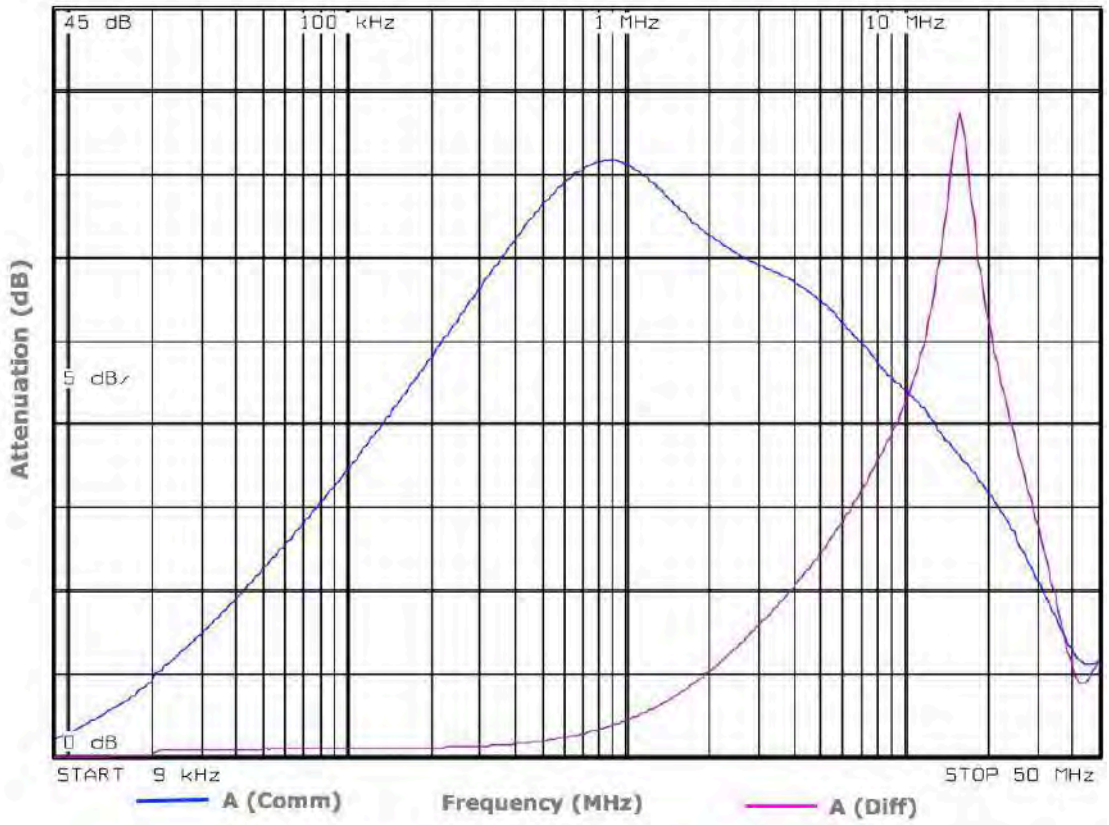


TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV150510**

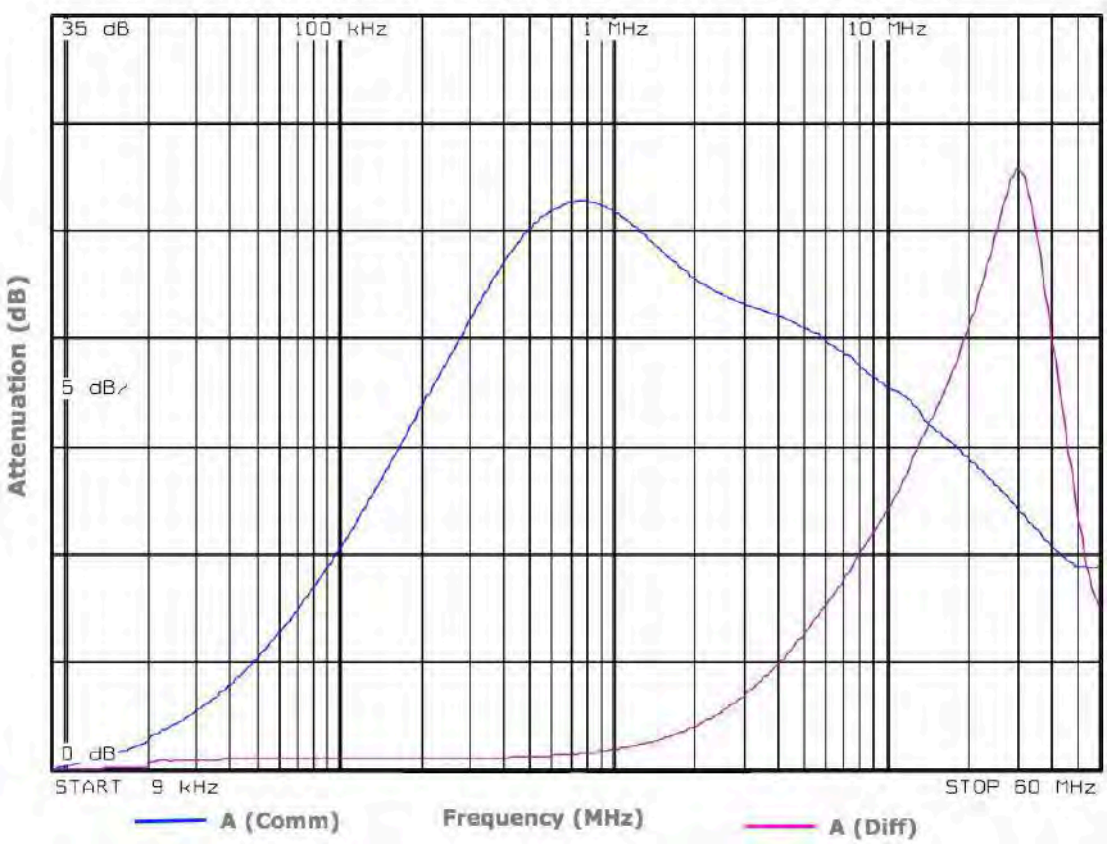


Common Mode Power Line Choke, Ferrite MnZn, Vertical Type
Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV150013**



TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV150418**



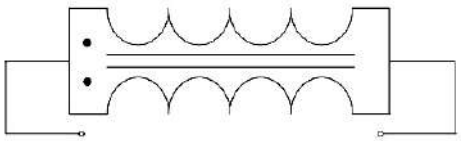
Common Mode Power Line Choke, Ferrite MnZn, Horizontal Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

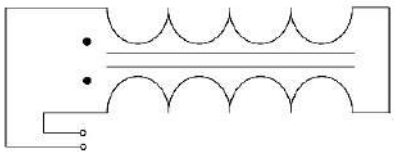
Design:
- Toroidal Ferrite Core in MnZn Material
- Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- Windings Separated
- Core insulated with UL recognised Epoxy coating
- **Customisation can be checked on request**

Applications:
- Power Electronics
- Power line input and output filter
- For filtering of devices without stable ground connection
- Radio interference suppression in motors
- Suppression of common mode noise

Insertion loss Graphs:
- Test Setup



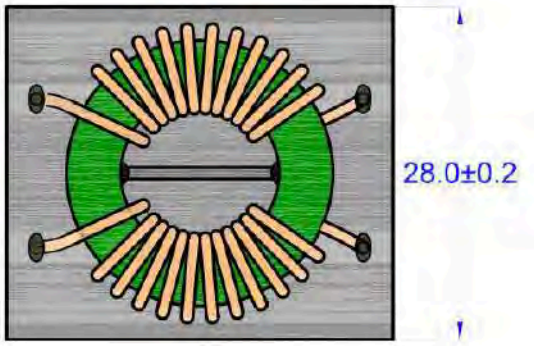
Common Mode



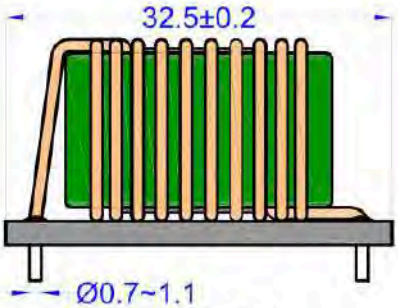
Differential Mode

Common Mode Power Line Choke, Ferrite MnZn, Horizontal Type

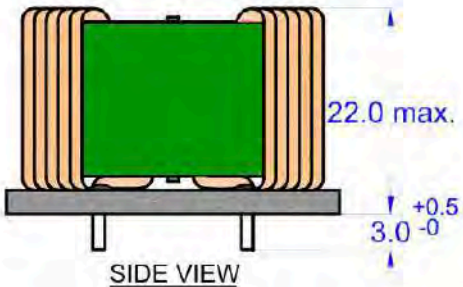
Drawing with Schematic:



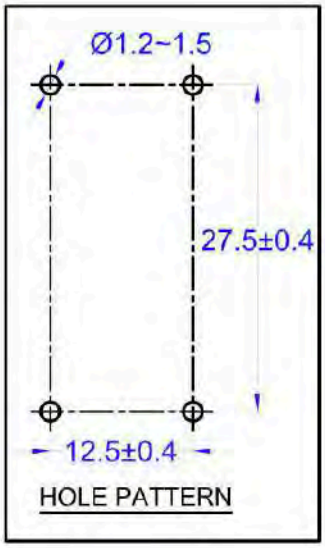
TOP VIEW



FRONT VIEW

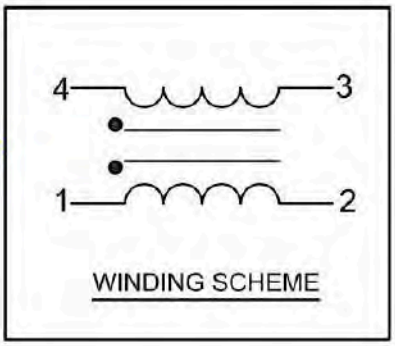


SIDE VIEW

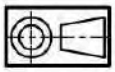


HOLE PATTERN

BOTTOM VIEW



WINDING SCHEME



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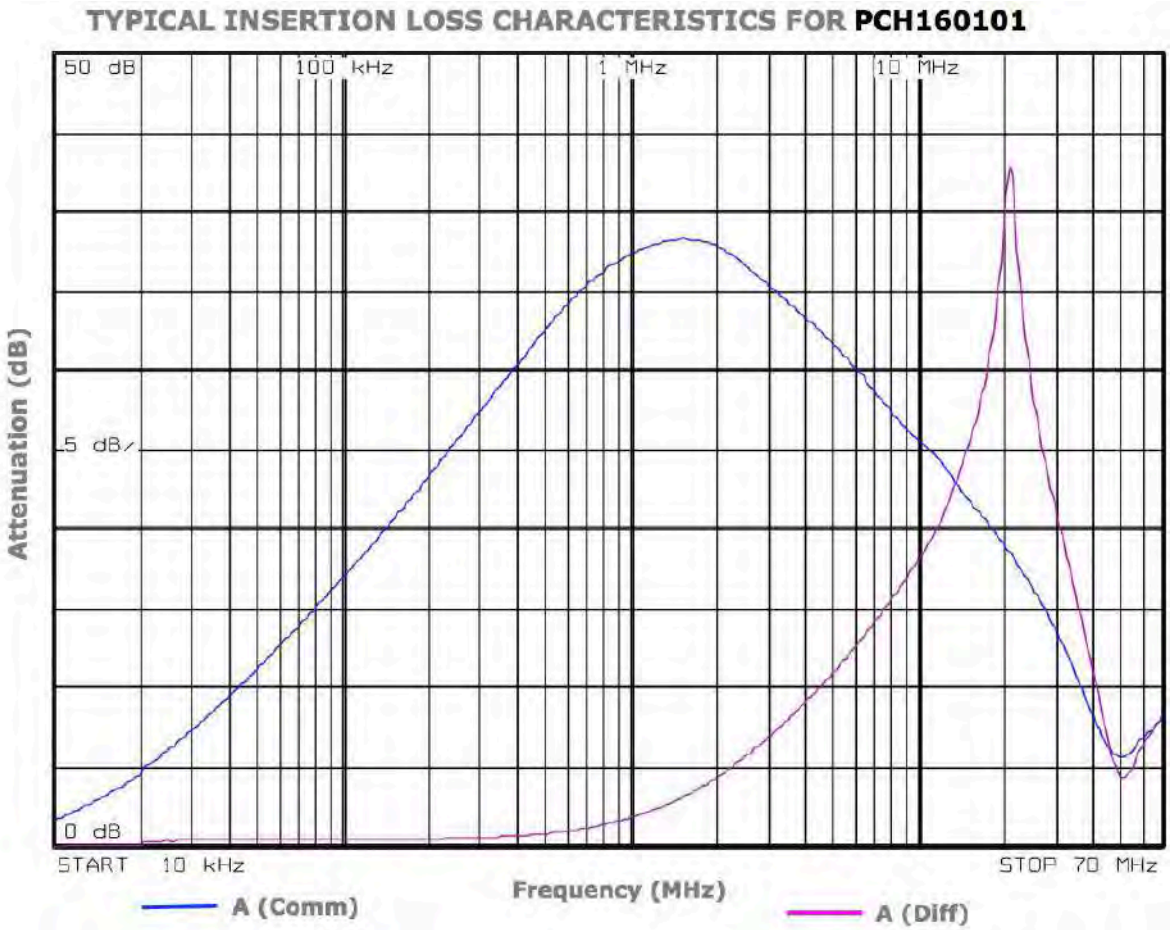
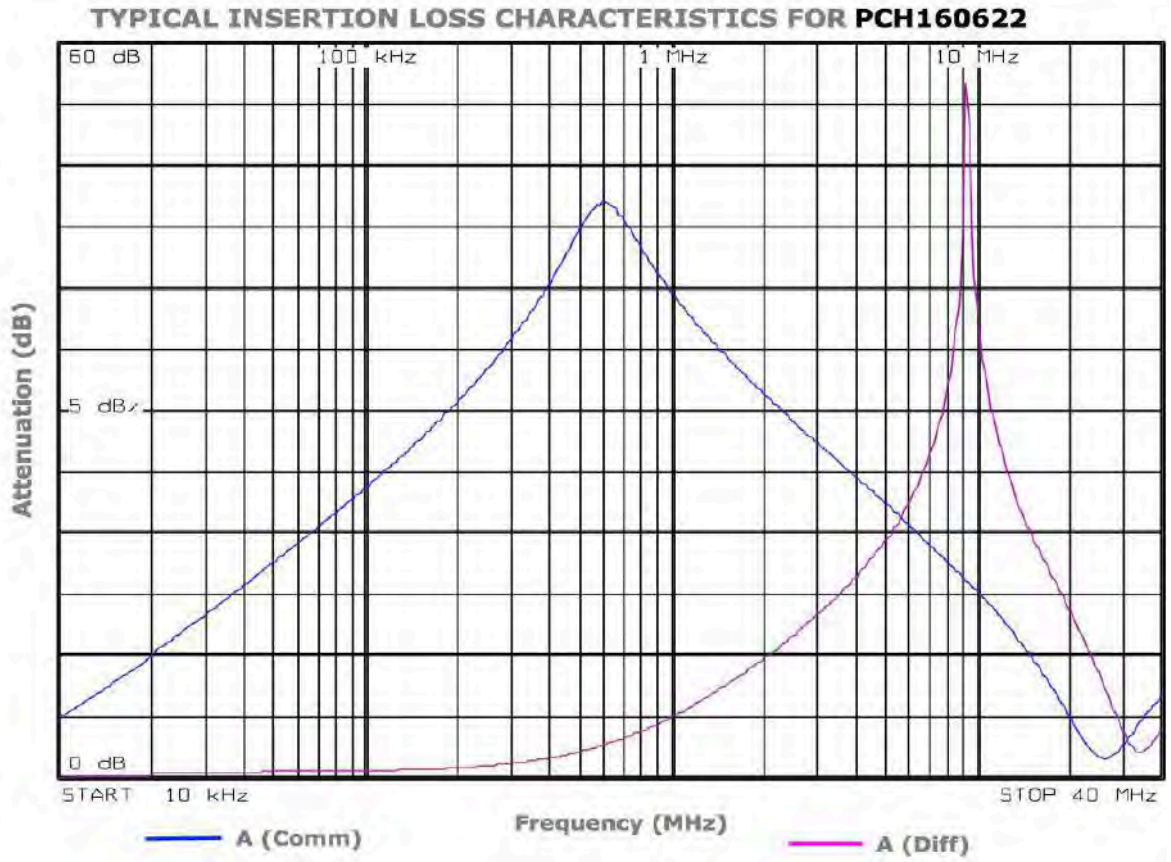
Ordering Code and Electrical Data:

Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)
PCH160101	1.0	-30 to +30	10.0	12.5	23
PCH160622	2.2	-30 to +30	6.0	22.0	28
PCH160433	3.3	-30 to +30	5.0	37.0	25
PCH160405	5.0	-30 to +30	4.0	50.0	26
PCH160407	7.0	-30 to +30	3.5	80.0	25

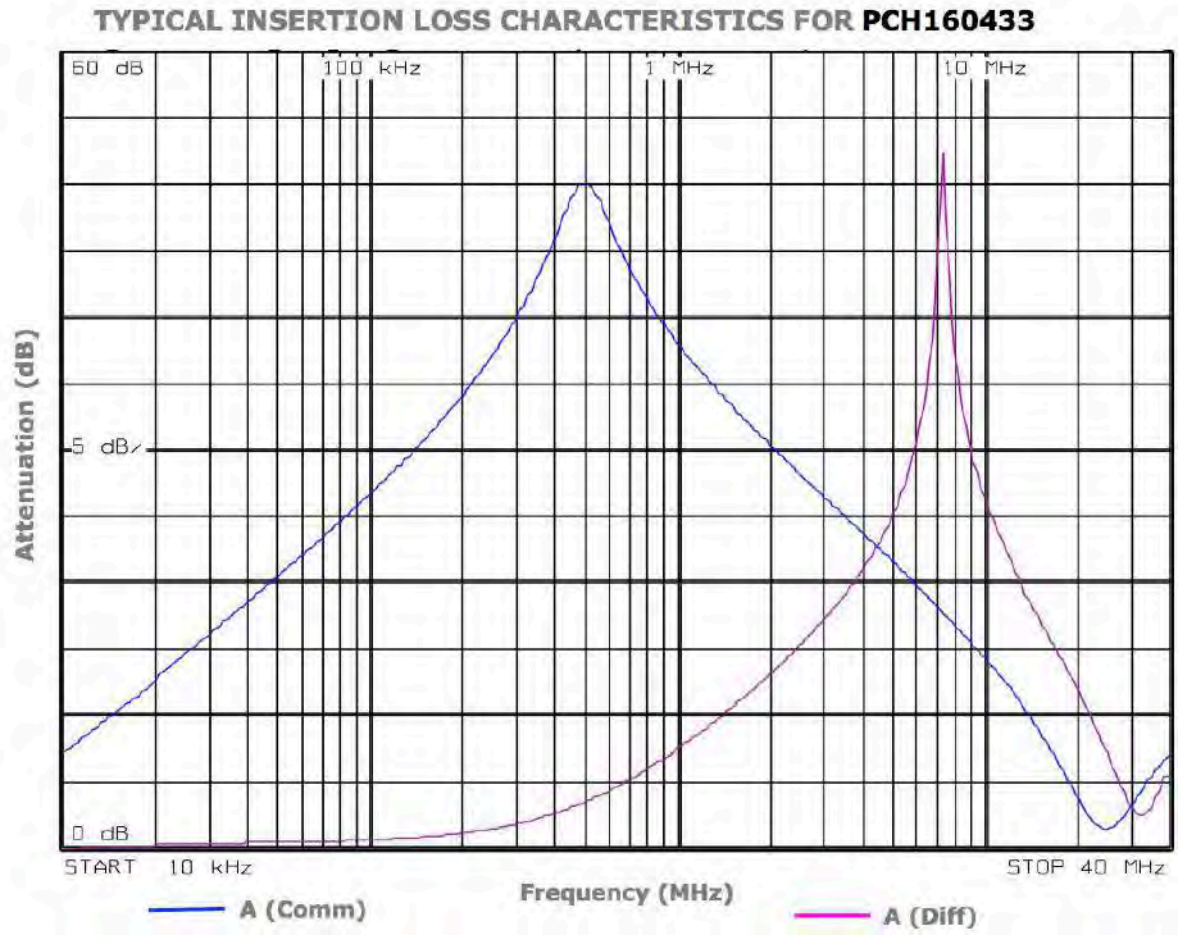
Common Mode Power Line Choke, Ferrite MnZn, Horizontal Type

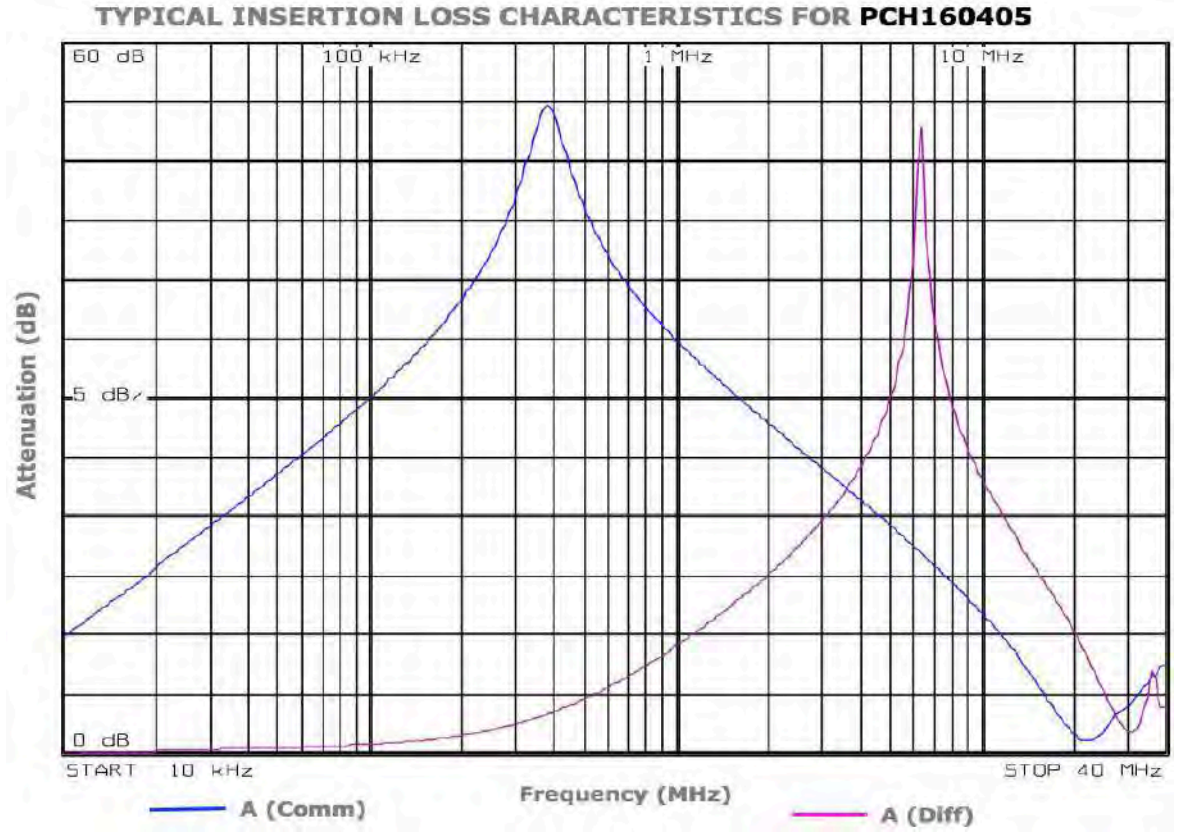
Insertion Loss Graphs:





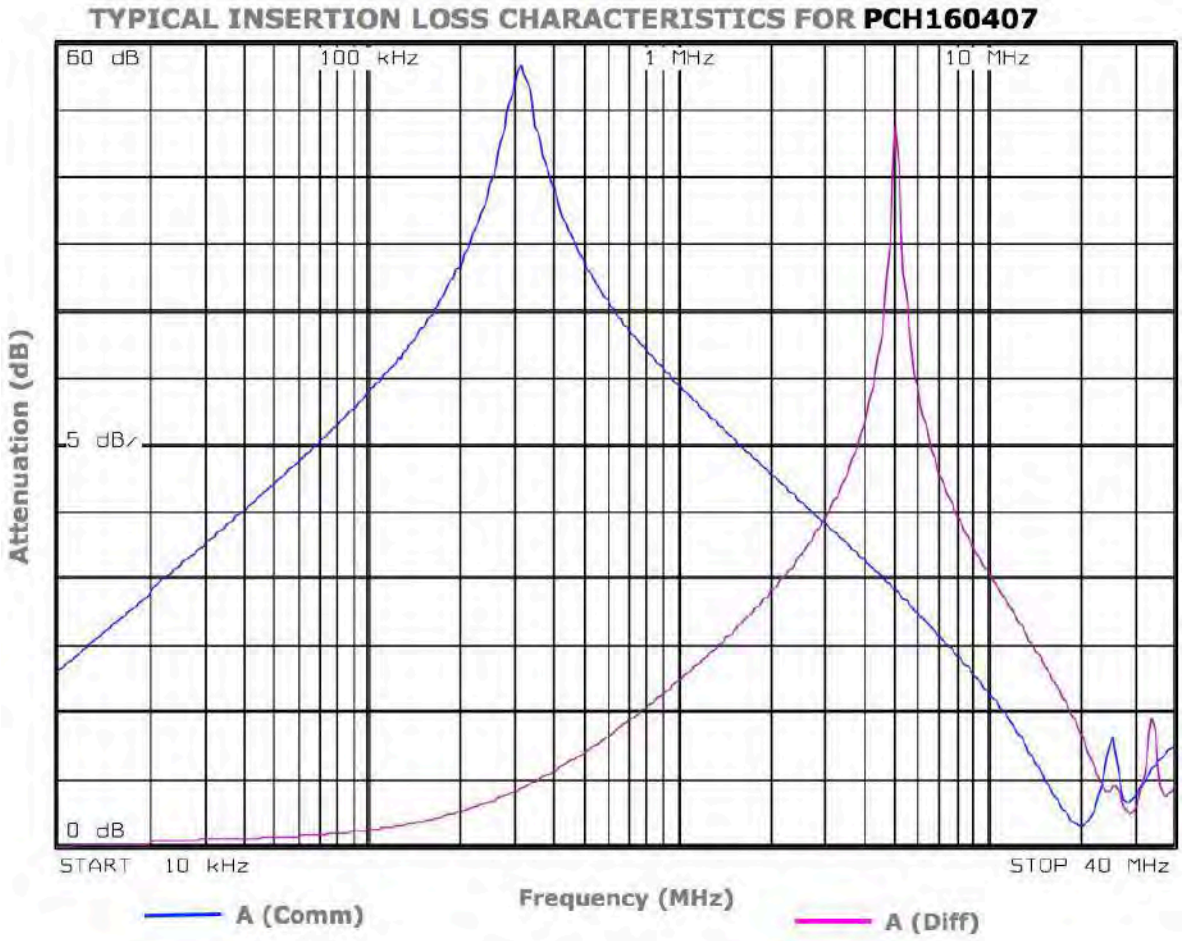
Common Mode Power Line Choke, Ferrite MnZn, Horizontal Type
Insertion Loss Graphs:





Common Mode Power Line Choke, Ferrite MnZn, Horizontal Type

Insertion Loss Graphs:



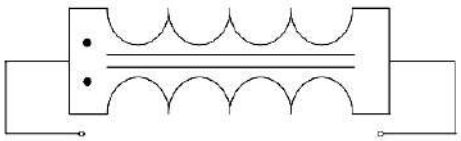
Common Mode Power Line Choke, Ferrite MnZn+NiZn, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

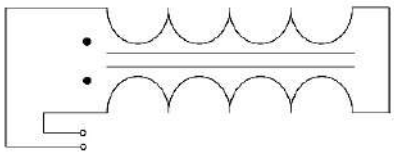
Design:
- – Double Core - Toroidal Ferrite Core in MnZn and NiZn Material
- – Separation of noise in a broad range (100kHz to 100MHz)
- – Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- – Combined noise and burst filter, increases electromagnetic immunity
- **– Customisation can be checked on request**

Applications:
- – Power Electronics
- – Mains line filter
- – EMC filter
- – Interference suppression in motors
- – Common mode filters

Insertion loss Graphs:
- – Test Setup



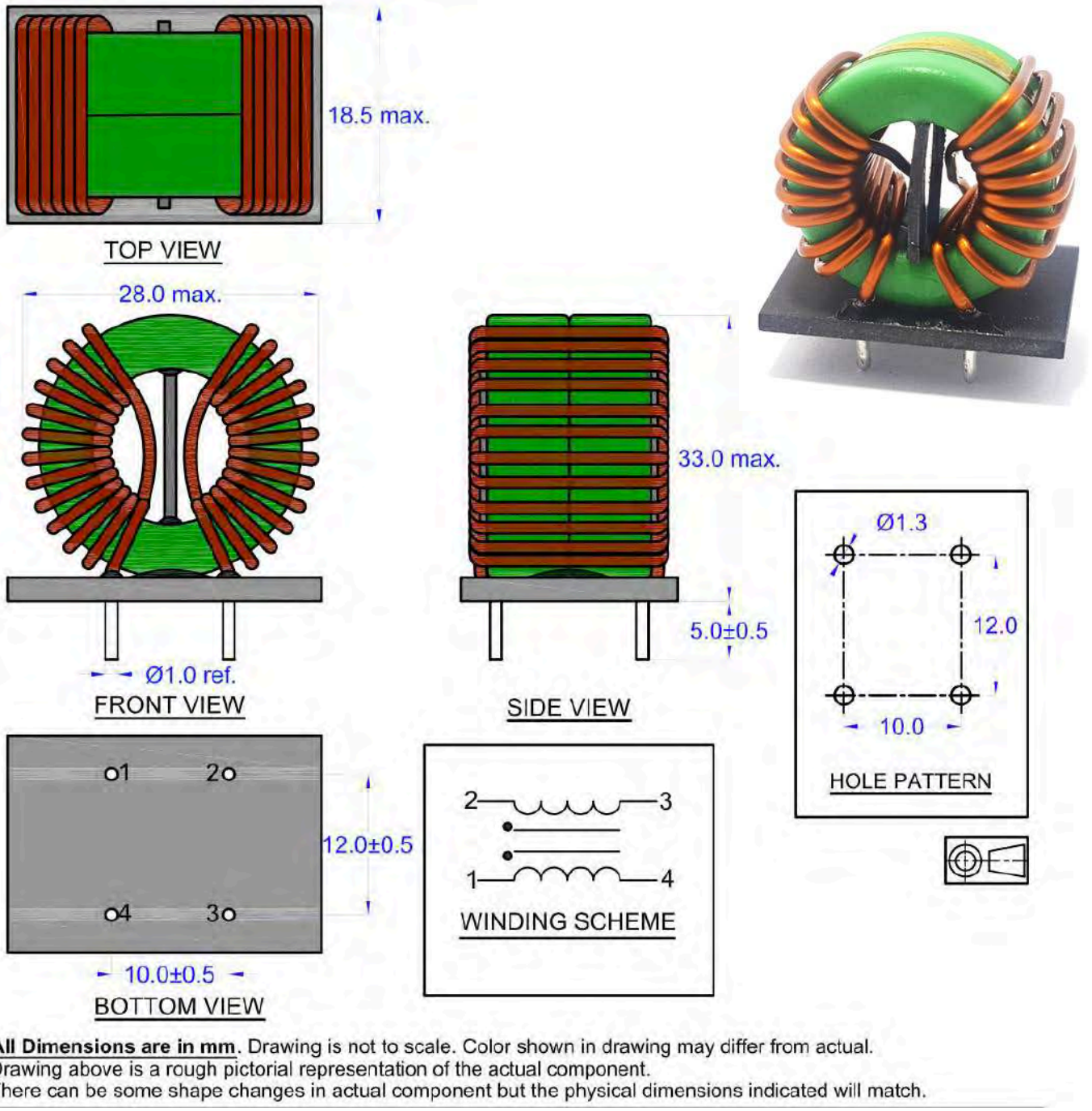
Common Mode



Differential Mode

Common Mode Power Line Choke, Double Core, Vertical Type

Drawing with Schematic:



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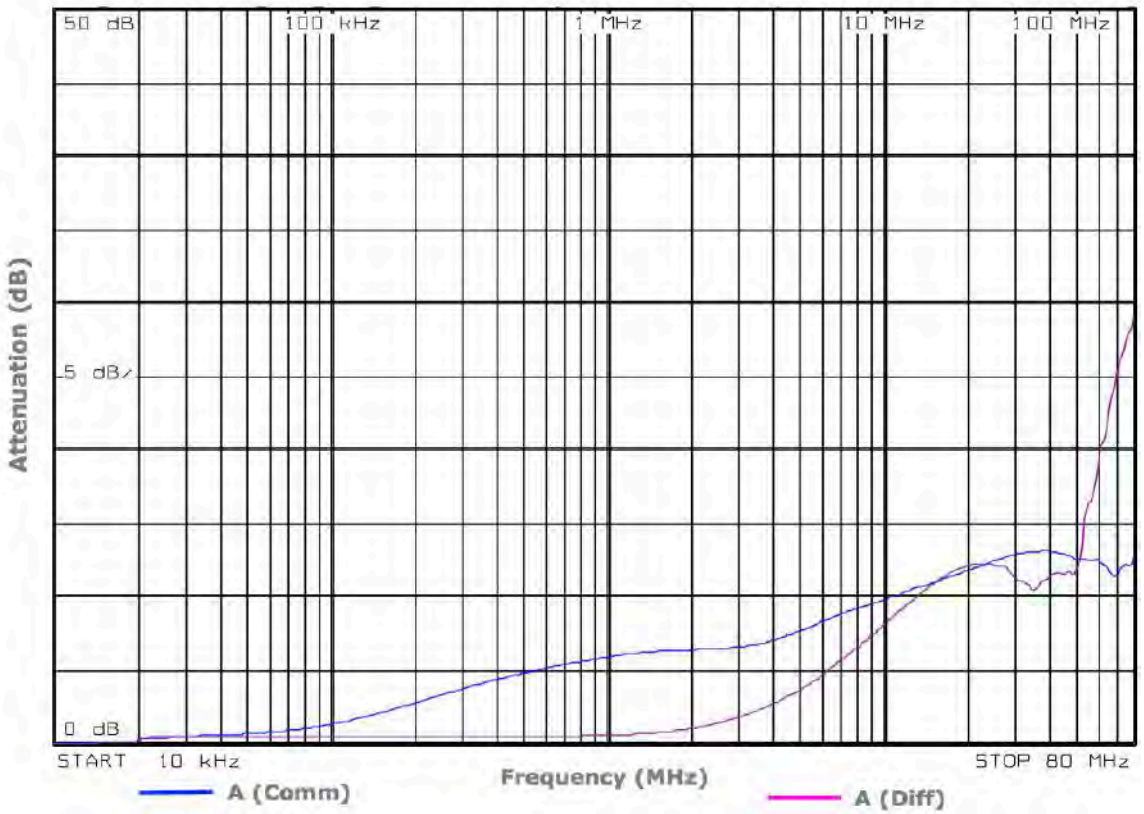
Ordering Code and Electrical Data:

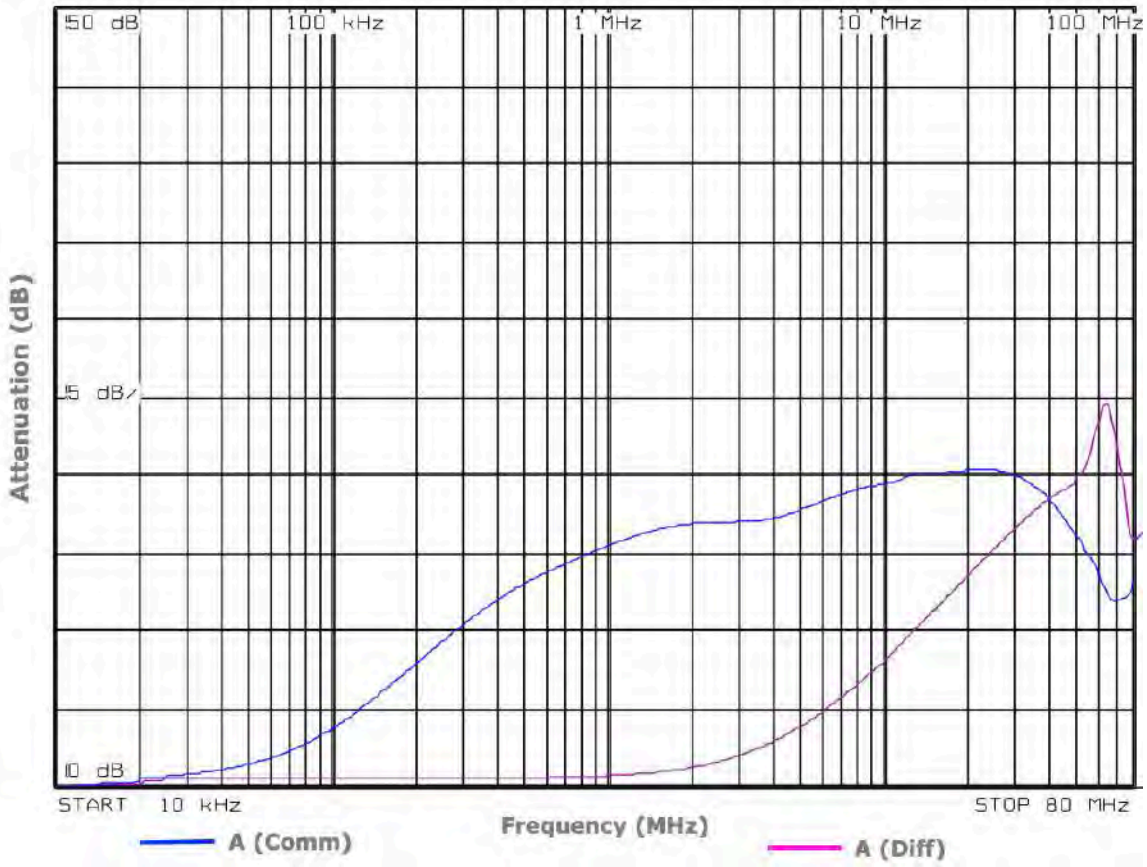
Order Code	Lr (µH)	Ir (A)	R dc max. (mΩ)	Ur (Vac)	W (g)
PCV300470	47	15	4.6	250	20
PCV300101	100	14	6	250	22
PCV300221	220	12	9.0	250	24
PCV300102	1000	4.5	42	250	21

Common Mode Power Line Choke, Double Core, Vertical Type
Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV300470**

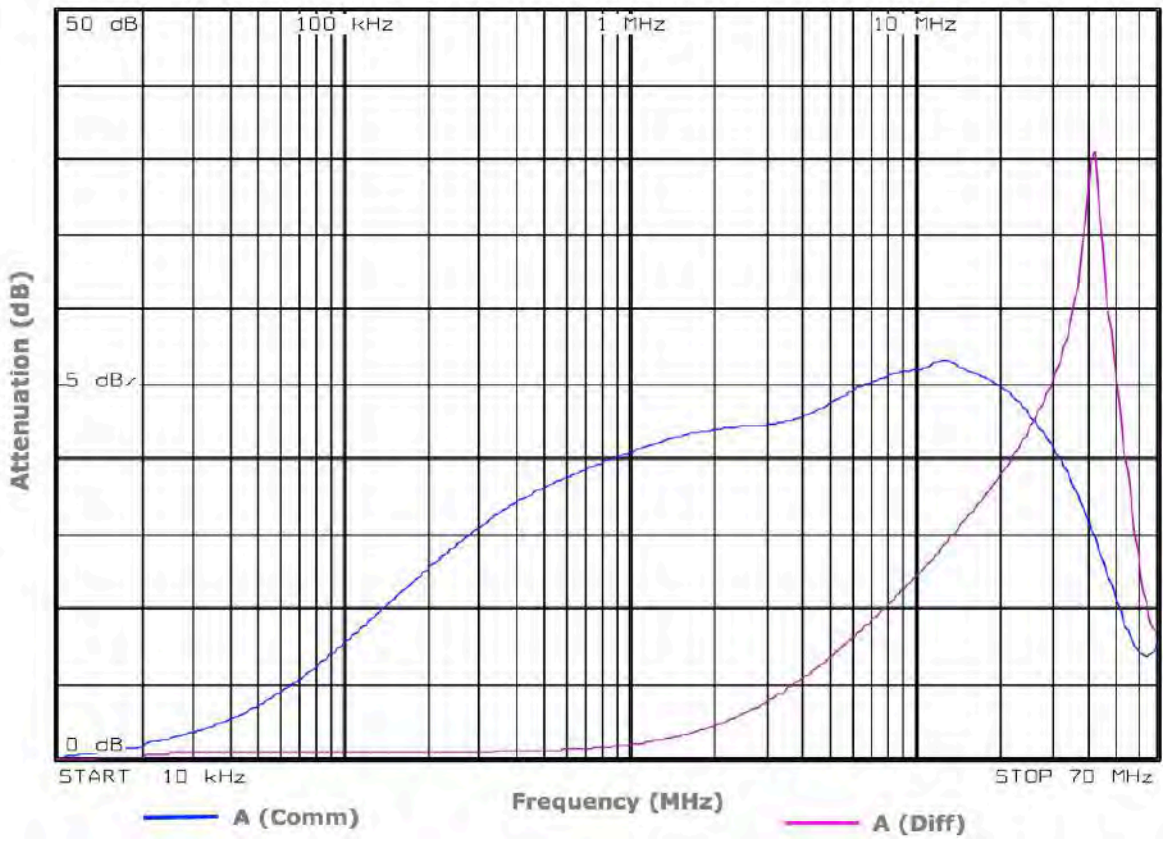


TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV300101**

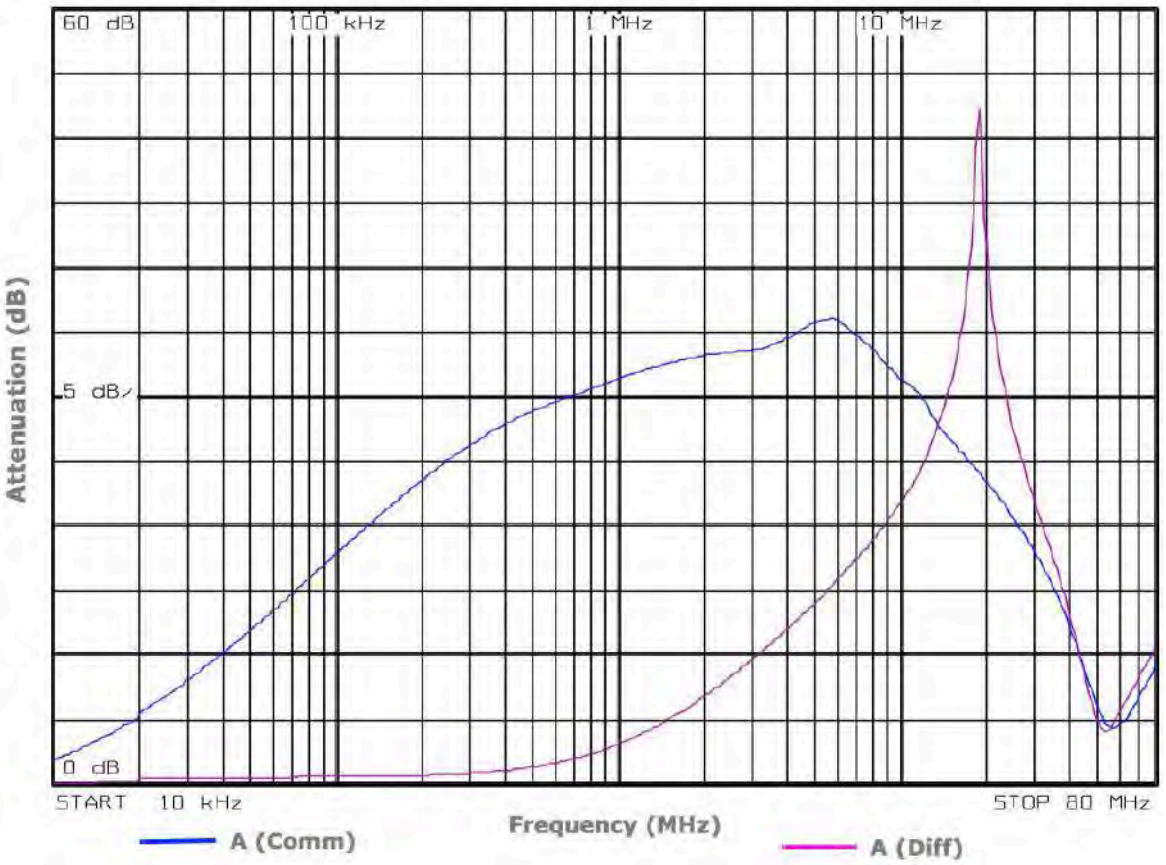


Common Mode Power Line Choke, Double Core, Vertical Type
Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV300221**



TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV300102**



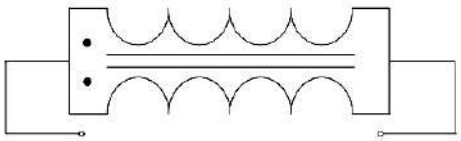
Common Mode Power Line Choke, Nanocrystalline, Vertical Type
Technical Data:

Voltage Rating - Ur:	250 Vac	
High Voltage Test - Ut:	1500 Vac - 50Hz - 2Sec	Winding to Winding
Current Rating - Ir:	At 50Hz and 70°C	
Nomi. Inductance - Lr:	Measured at 20°C; Test Current: 0.1mA Test Frequency: – 100kHz for Lr ≤ 1mH – 10kHz for Lr > 1mH	According to IEC 60938
DC Resistance - Rdc:	Measured at 20°C	
Climate Class:	40/125/21	According to IEC 60068-1

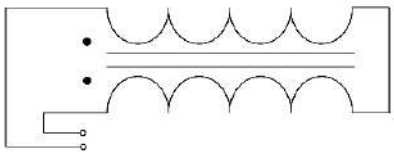
Design:
- High permeability nanocrystalline core material
- Frequency range: 1kHz to 300MHz
- Plastic Base Plate made of PA or PET or Phenolic, UL 94 V-0
- Excellent isolation with plastic cap and winding spacer
- **Customisation can be checked on request**

Applications:
- Power Electronics
- Power line input and output filter
- Suppression of common mode noise
- Radio interference suppression in motors

Insertion loss Graphs:
- Test Setup



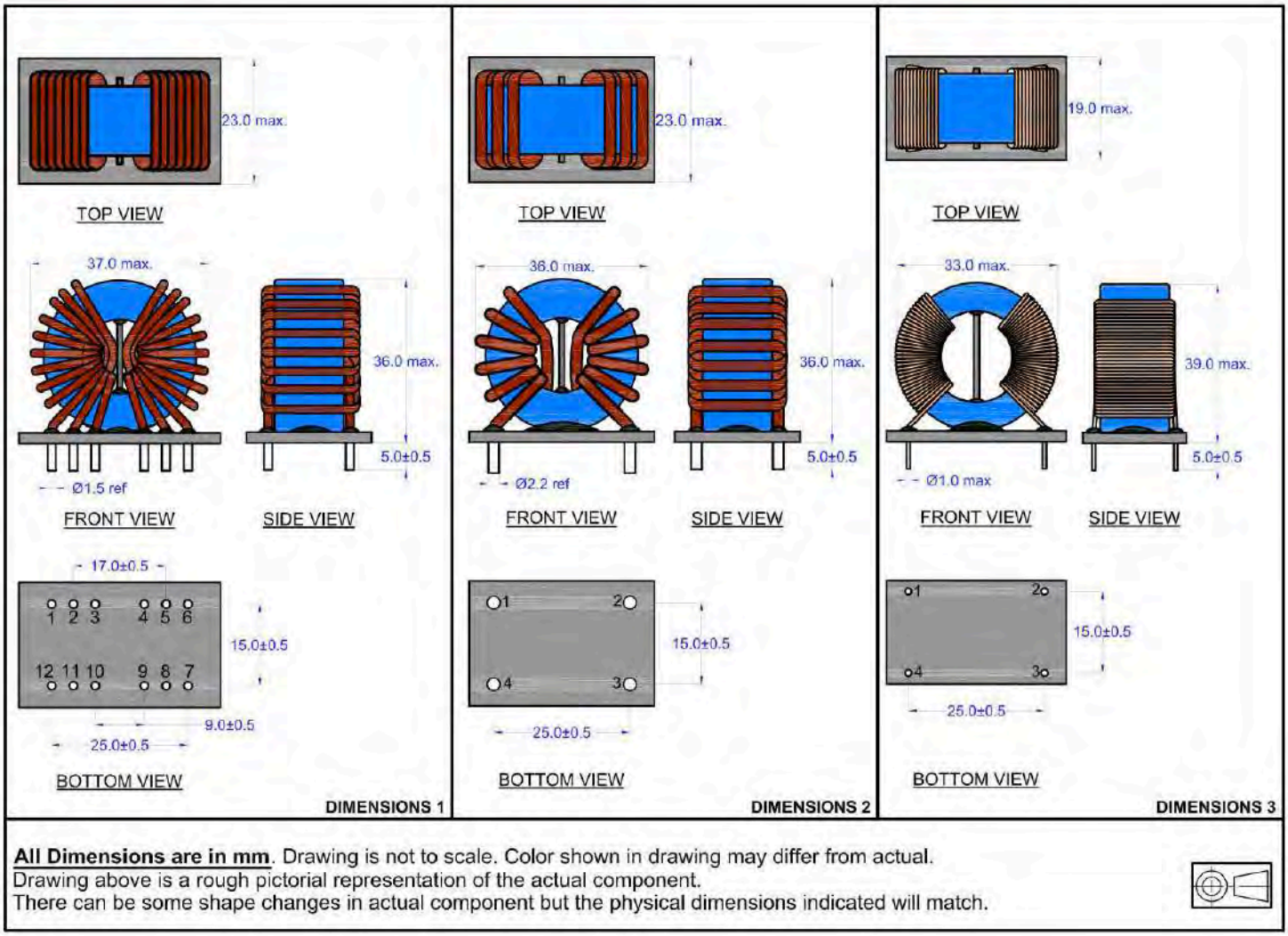
Common Mode



Differential Mode

Common Mode Power Line Choke, Nanocrystalline, Vertical Type

Drawing with Schematic:



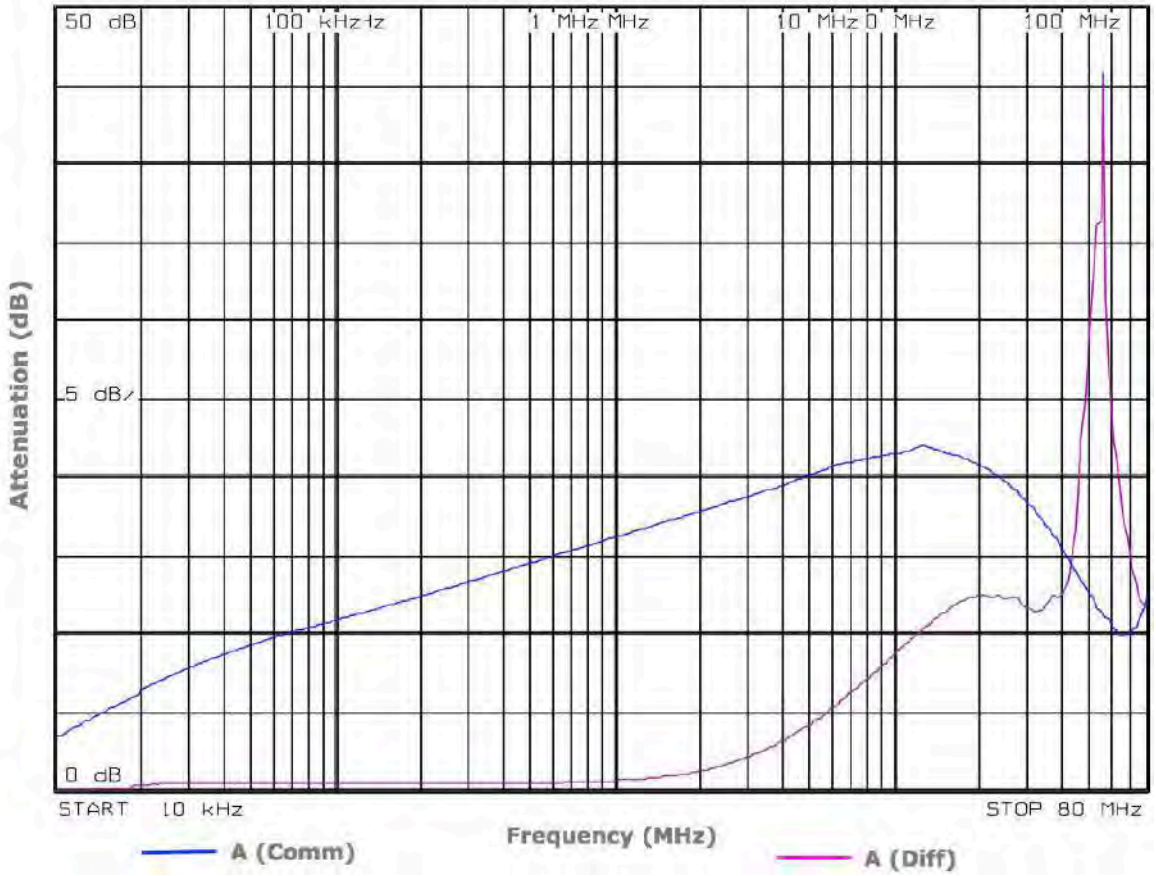
All Dimensions are in mm. Drawing is not to scale. Color shown in drawing may differ from actual.
Drawing above is a rough pictorial representation of the actual component.
There can be some shape changes in actual component but the physical dimensions indicated will match.

Ordering Code and Electrical Data:

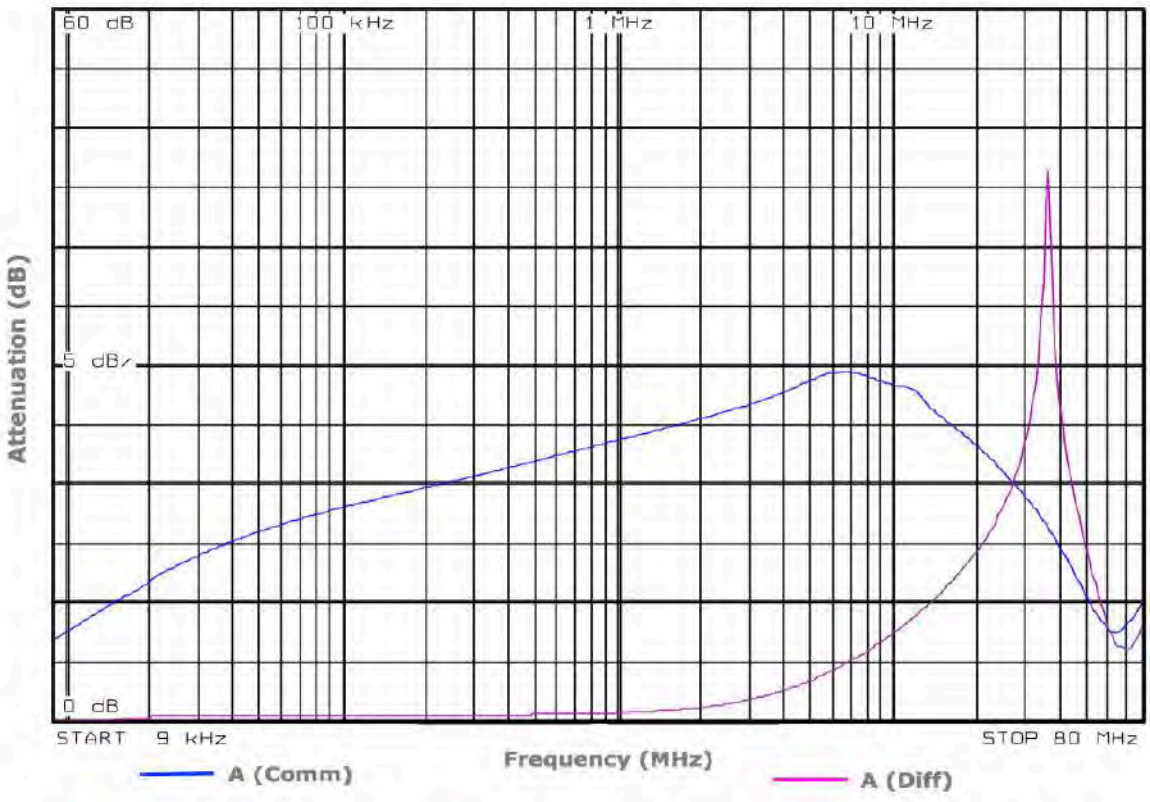
Order Code	Lr (mH)	Tolerance (%)	Ir (A)	R dc max. (mΩ)	W (g)	Dimensions
PCV4303201	0.9	-30 to +50	32	1.1	40	1
PCV4302303	3.0	-30 to +50	23	3.0	38	2
PCV4301804	4.5	-30 to +50	18	4.2	39	2
PCV4301012	12	-30 to +50	10	15	34	2
PCV4300530	30	-30 to +50	5	46	28	2
PCV4300490	90	-30 to +50	3.5	110	35	3
PCV4300219	190	-30 to +50	2.0	310	29	3

Common Mode Power Line Choke, Nanocrystalline, Vertical Type
Insertion Loss Graphs:

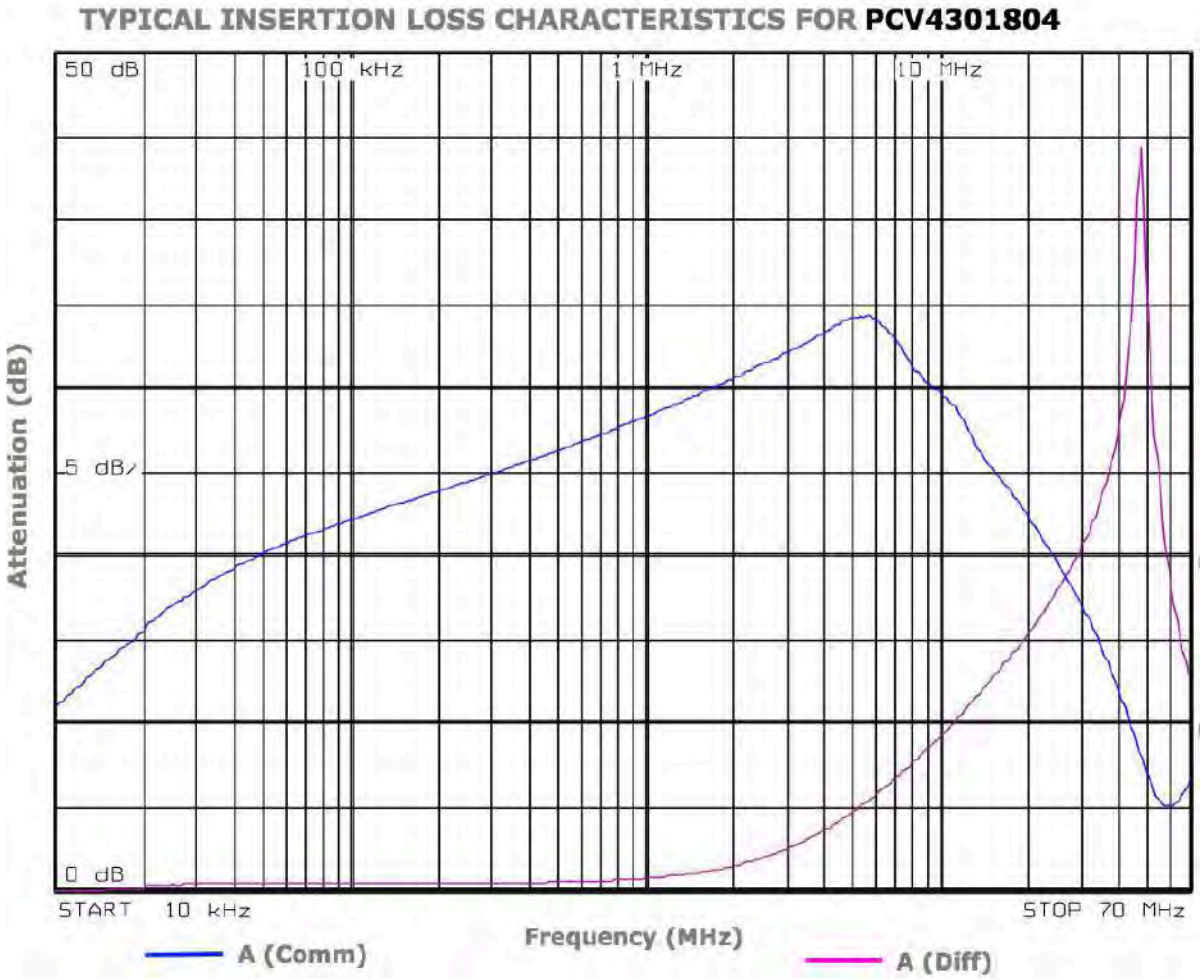
TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV4303201**

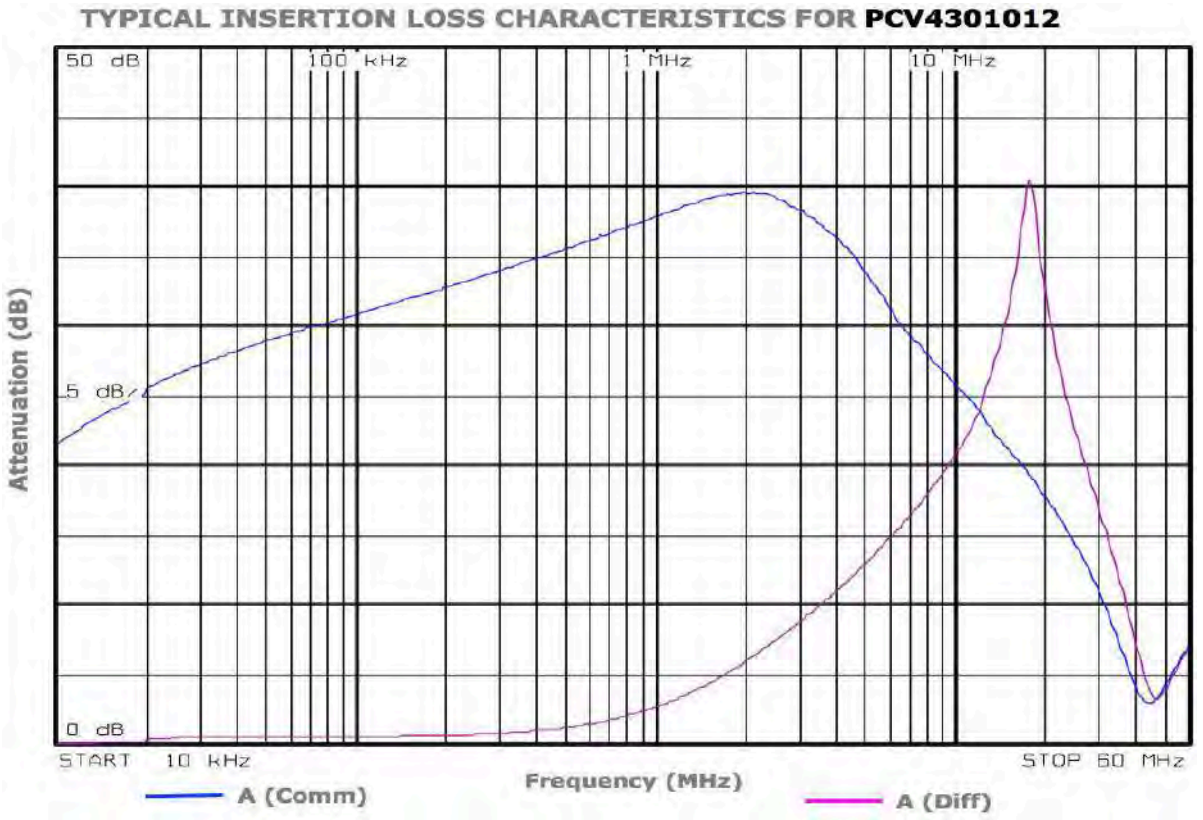


TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV4302303**



Common Mode Power Line Choke, Nanocrystalline, Vertical Type
Insertion Loss Graphs:

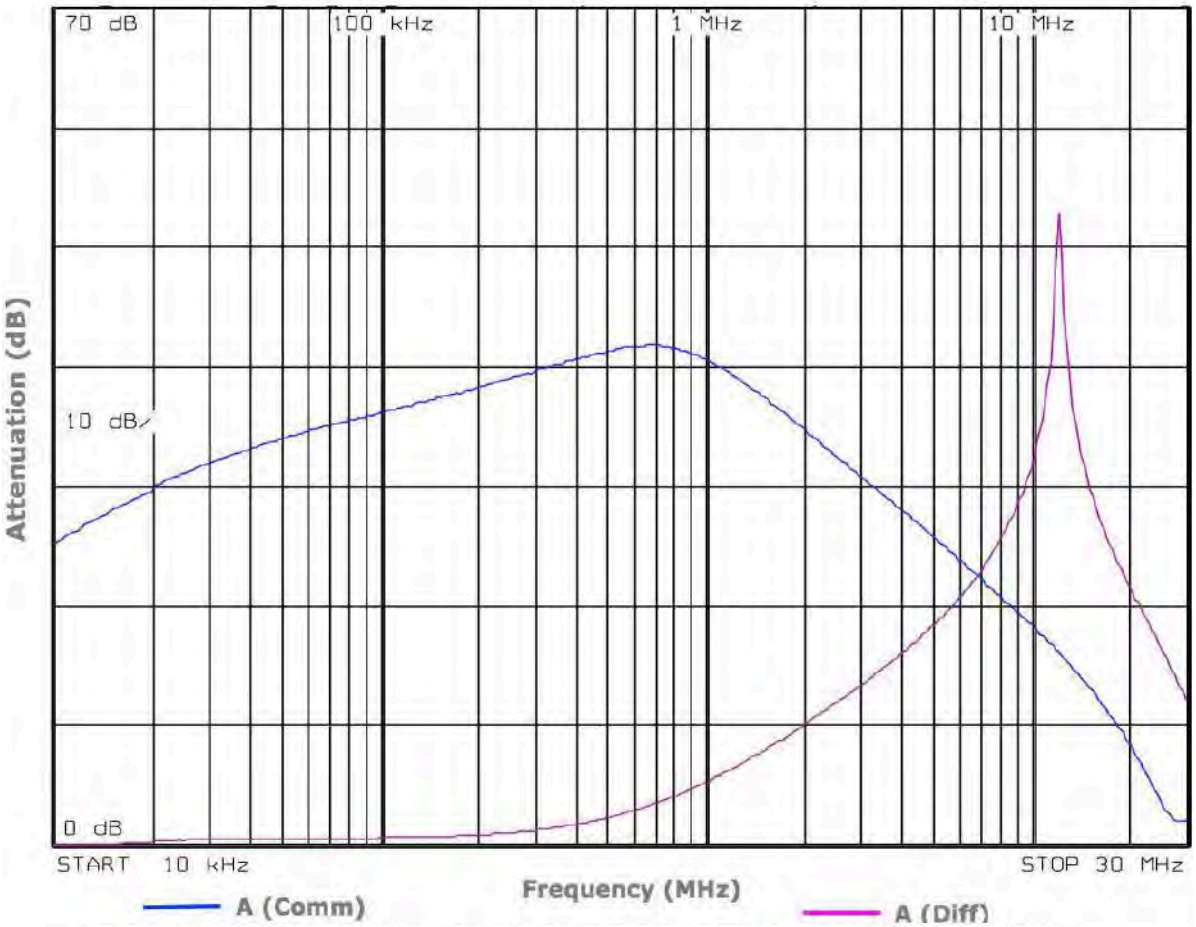




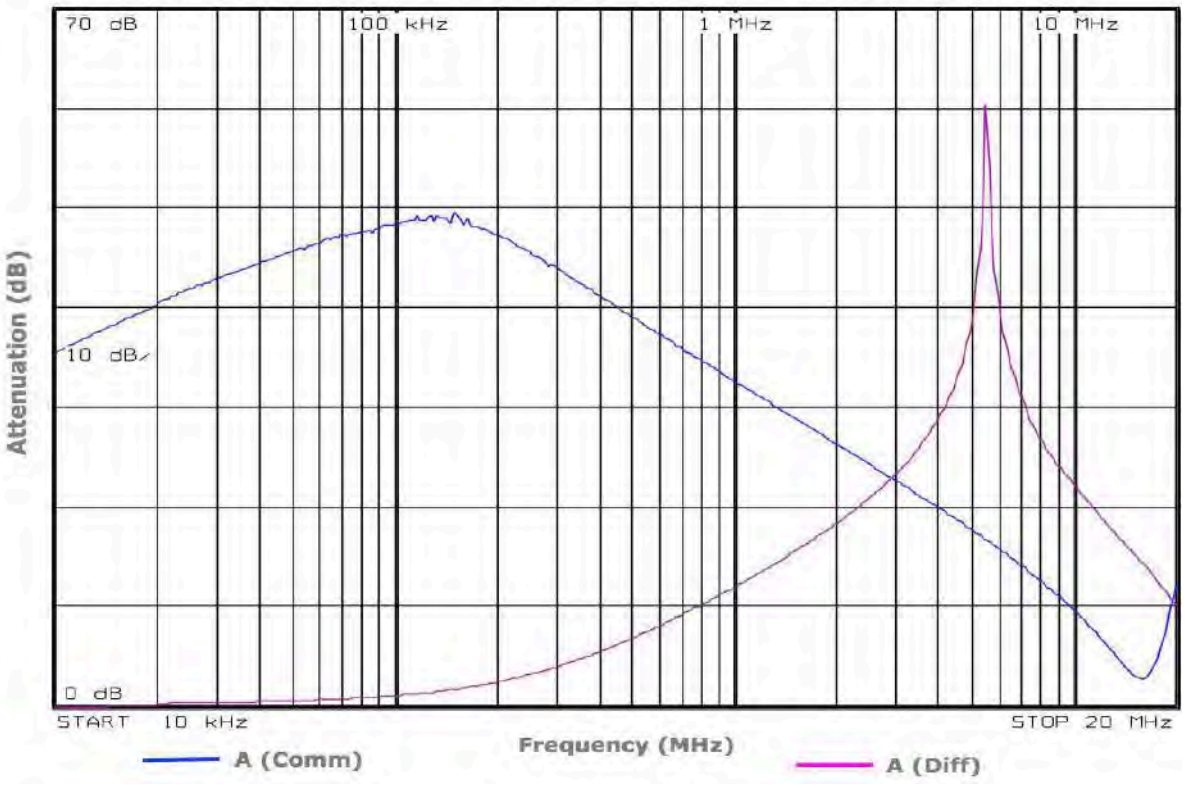
Common Mode Power Line Choke, Nanocrystalline, Vertical Type

Insertion Loss Graphs:

TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV4300530**

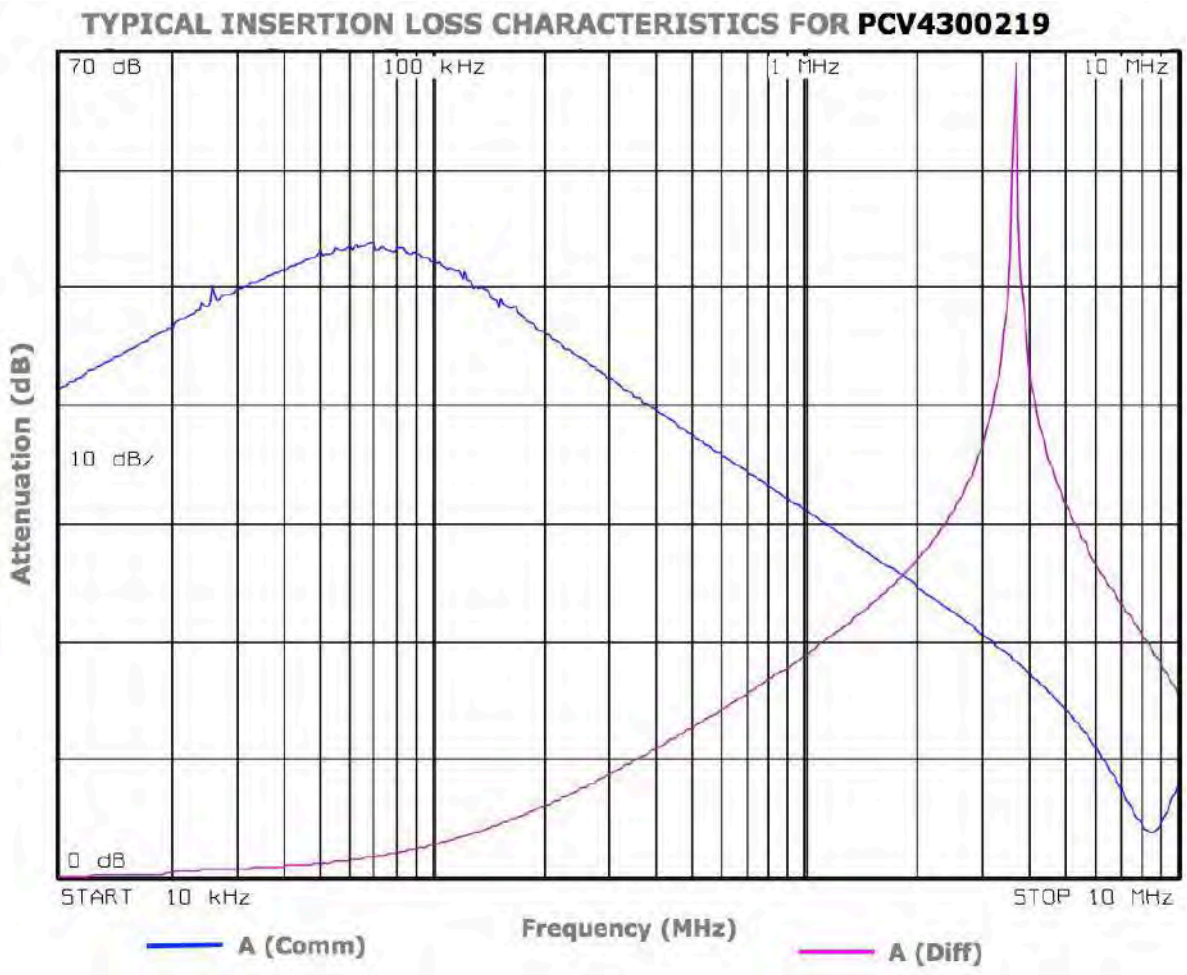


TYPICAL INSERTION LOSS CHARACTERISTICS FOR **PCV4300490**



Common Mode Power Line Choke, Nanocrystalline, Vertical Type

Insertion Loss Graphs:



THE GALAXY OF WOUND MAGNETIC COMPONENTS

PARKER overseas

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All Components are MADE IN INDIA