

Common Mode Choke for Vehicle Ethernet

—AMCW-L



Overview

The AMCW-L series common mode choke have the characteristics of winding structure, small size. It has a good suppression effect of high frequency common mode noise, meets the AEC-Q200 certification and is applied in vehicle multimedia system, Ethernet and A²B.

Background

With the development of automotive networking and intelligence, people have higher requirements for on-board information and entertainment system. The new demands have been placed on in-vehicle networks. The traditional vehicular network can't meet the current requirements of scalability, high bandwidth and openness. With its excellent scalability and high data transmission rate, automotive Ethernet will become the mainstream of next-generation automotive networks.

Sunlord has launched a common mode choke, AMCW-L series products that can be applied to high-speed Ethernet interfaces.

Features

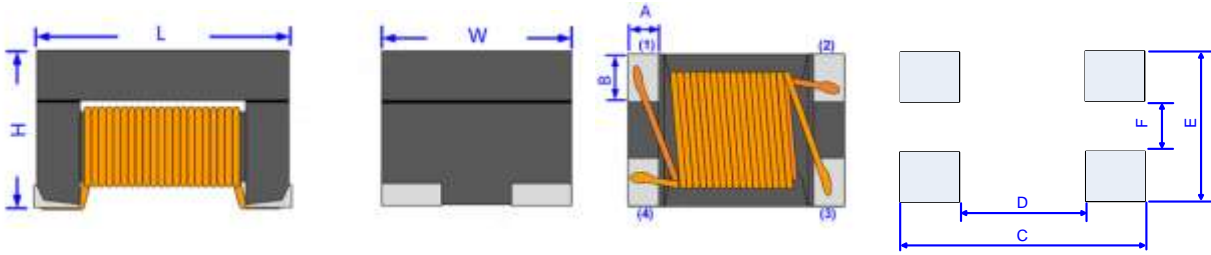
- Good common mode noise suppression capability , High EMC
- Unique winding way to realize small size of products
- Temperature range : -40~+125°C
- High reliability, AEC-Q200 certification

Applications

- Vehicle multimedia system , Ethernet , A²B

Dimensions

AMCW-L Series



Unit: mm

Series	L	H	W	A	B	C	D	E	F
AMCW4532L	4.50±0.20	2.30±0.20	3.20±0.20	1.00	1.25	5.50	2.90	3.20	0.70
AMCW3225L	3.20±0.20	2.20±0.20	2.50±0.20	0.70	1.05	4.10	2.00	2.50	0.40

Part Number

AMCW **3225** **L** **-2** **-201** **T**
 ① ② ③ ④ ⑤ ⑥

①

Type	
AMCW	Winding Type Common Mode Choke Coil

②

(L×W) (mm)	
External Dimensions (L×W) (mm)	
4532 [1812]	4.5×3.2
3225 [1210]	3.2×2.5

③

Code	
L	Ethernet

④

Number of Lines
2

⑤

Nominal Inductance	
Example	Nominal Value
201	200μH
101	100μH

⑥

Packing	
T	Tape & Reel

Specifications

AMCW4532L Series

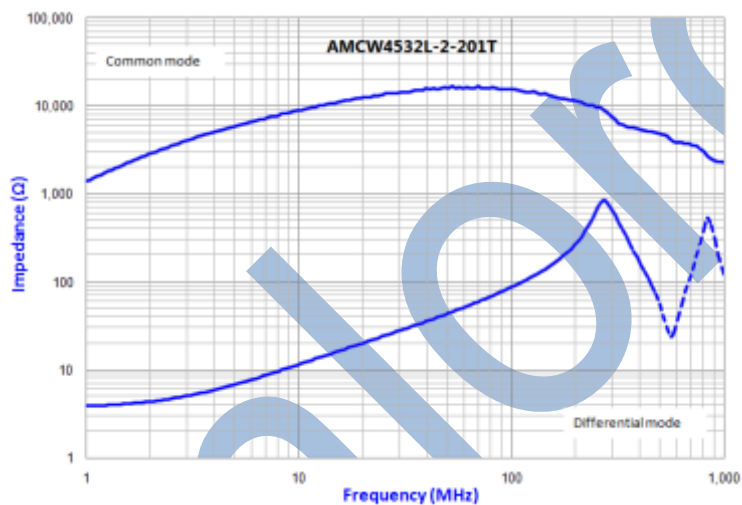
Part Number	Inductance @100KHz/0.1V	DC Resistance	Rated Current	Rated Voltage	Insulation Resistance
		Max.	Max.	Max.	Min.
Units	μH	Ω	mA	Volts	MΩ
Symbol	L	DCR	I _{rms}	VDC	IR
AMCW4532L-2-201T	200(+50%/-25%)	4.5	110	50	10

AMCW3225L Series

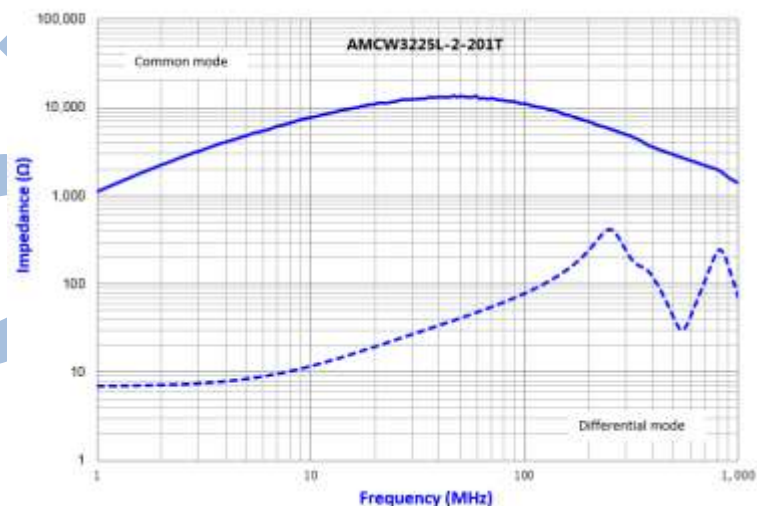
Part Number	Inductance @100KHz/0.1V	DC Resistance	Rated Current	Rated Voltage	Insulation Resistance
		Max.	Max.	Max.	Min.
Units	μH	Ω	mA	Volts	MΩ
Symbol	L	DCR	I _{rms}	VDC	IR
AMCW3225L-2-101T	100(+50%/-30%)	1.5	150	80	10
AMCW3225L-2-201T	200(+50%/-20%)	4.0	70	80	10

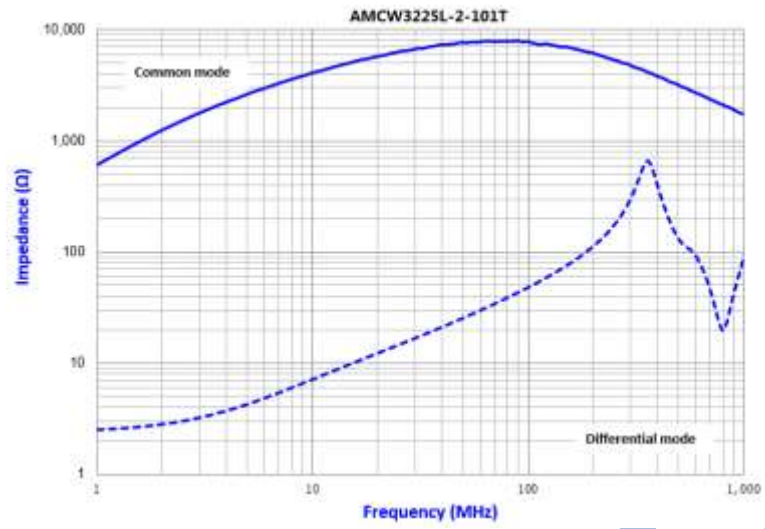
Electrical Characteristics

AMCW4532L TYPE



AMCW3225L TYPE





Production

- Mass production

Sunlord