

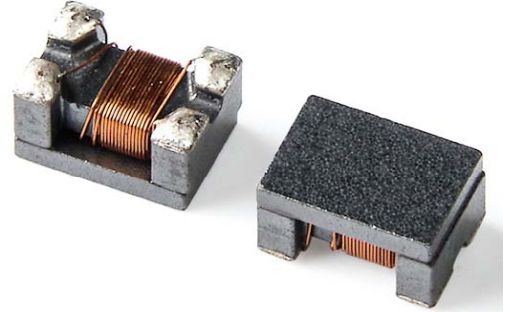
# SPECIFICATION OF WCM-□□□□AUTO SERIES

## AEC-Q200



### FEATURES

- Wire-wound common mode choke coil
- Common mode filters for automotive Ethernet 1000BASE-T1 and 100BASE-T1
- Common mode EMC Solution
- Compatible with RoHS Directive and AEC-Q200
- Compatible with Automotive required operating temperature  
-40 to +125°C



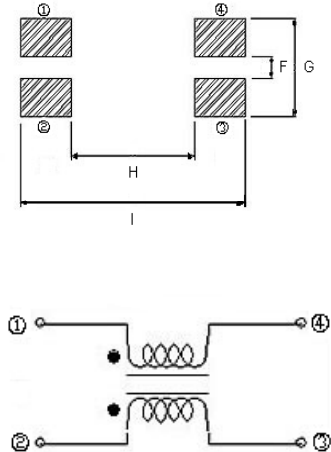
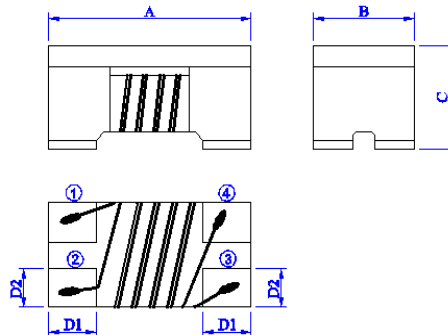
### APPLICATIONS

- EMI Suppression for Single-line, Automotive for CAN, CAN-FD, Ethernet...etc.
- In-Vehicle Network (Central Server, ECU)
- Safety (Camera, Drive Recorder, Radar, Light, ADAS, ABS...etc.)
- In-Vehicle Infotainment System (Monitor ,Audio, Navigation...etc.)
- Comfort Equipment (Electric Seat, Climate Control, Charging...etc.)

### ORDERING CODE

WCM-4532AUTO-101 Y T  
 (1) (2) (3) (4) (5)

- (1) PRODUCT TYPE CODE
- (2) PRODUCT SIZE & DESIGN CODE
- (3) INDUCTANCE / IMPEDANCE CODE
- (4) TOLERANCE
- (5) TAPING CODE



### APPEARANCE & DIMENSIONS

UNIT:mm (inch)

SIZE CODE	A	B	C	D1 TYP	D2 TYP	F TYP	G TYP	H TYP	I TYP		
WCM-2012AUTO (0805)	2.00±0.20 (0.079±0.008)	1.20±0.20 (0.047±0.008)	1.20±0.20 (0.047±0.008)	0.45 (0.018)	0.40 (0.016)	0.40 (0.016)	1.20 (0.047)	0.80 (0.031)	2.60 (0.102)		
WCM-3225AUTO (1210)	3.30±0.20 (0.13±0.008)	2.60±0.20 (0.102±0.008)	2.6max (0.094±0.008)	0.50 (0.019)	0.90 (0.035)	0.60 (0.024)	3.50 (0.138)	1.60 (0.063)	4.00 (0.157)		
WCM-4532AUTO (1812)	4.50±0.20 (0.177±0.008)	3.20±0.20 (0.126±0.008)	2.80+0.35(-0.2) (0.110±0.008)	1.00 (0.039)	1.20 (0.039)	0.40 (0.016)	3.60 (0.141)	2.10 (0.082)	4.90 (0.192)		

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KING CORE ELECTRONICS INC.  
 Tel:886-3-4698855 Fax:886-3-4691395

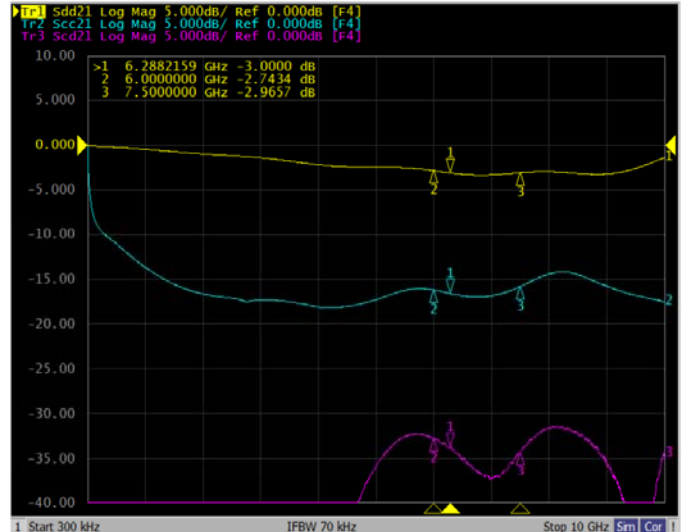
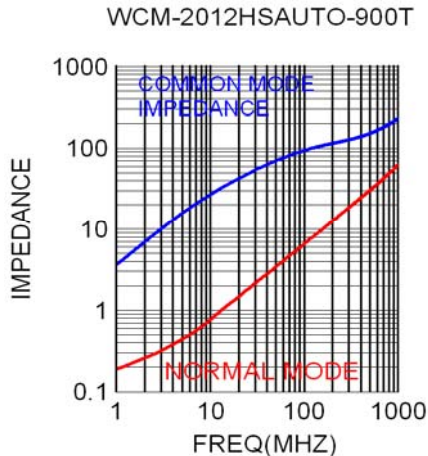
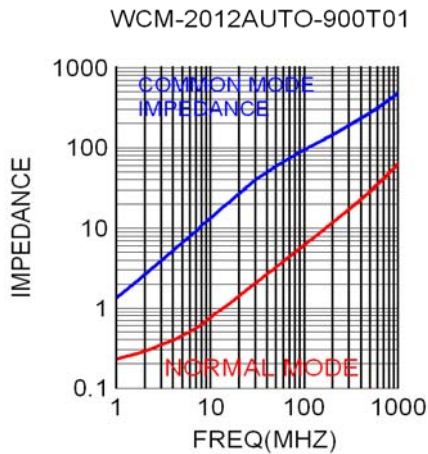
No.269,Nanfong Rd.,Pingjhen City,Taoyuan County, Taiwan  
 E-mail:kc@mail.kingcore.com.tw Web Site:http://www.kingcore.com.tw

# COMMON MODE CHOKE → WCM-2012AUTO SERIES

## ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)	DC Resistance (Ω)	IDC (mA)	Rated Voltage V (DC)	Insulation Resistance (MΩ)	
	100MHz	max	max		(MΩ) min	
WCM-2012AUTO-900T01	90±25%	0.190	400	50	10	
WCM-2012HSAUTO-900T	90±25%	0.300	400	50	10	

■ WCM-HS type application: DVI, Display Port, USB3.1, USB3.2



※IDC: Based on Temperature increase 40°C

※Operating temperature range : -40 to +125°C (including self-generated heat)

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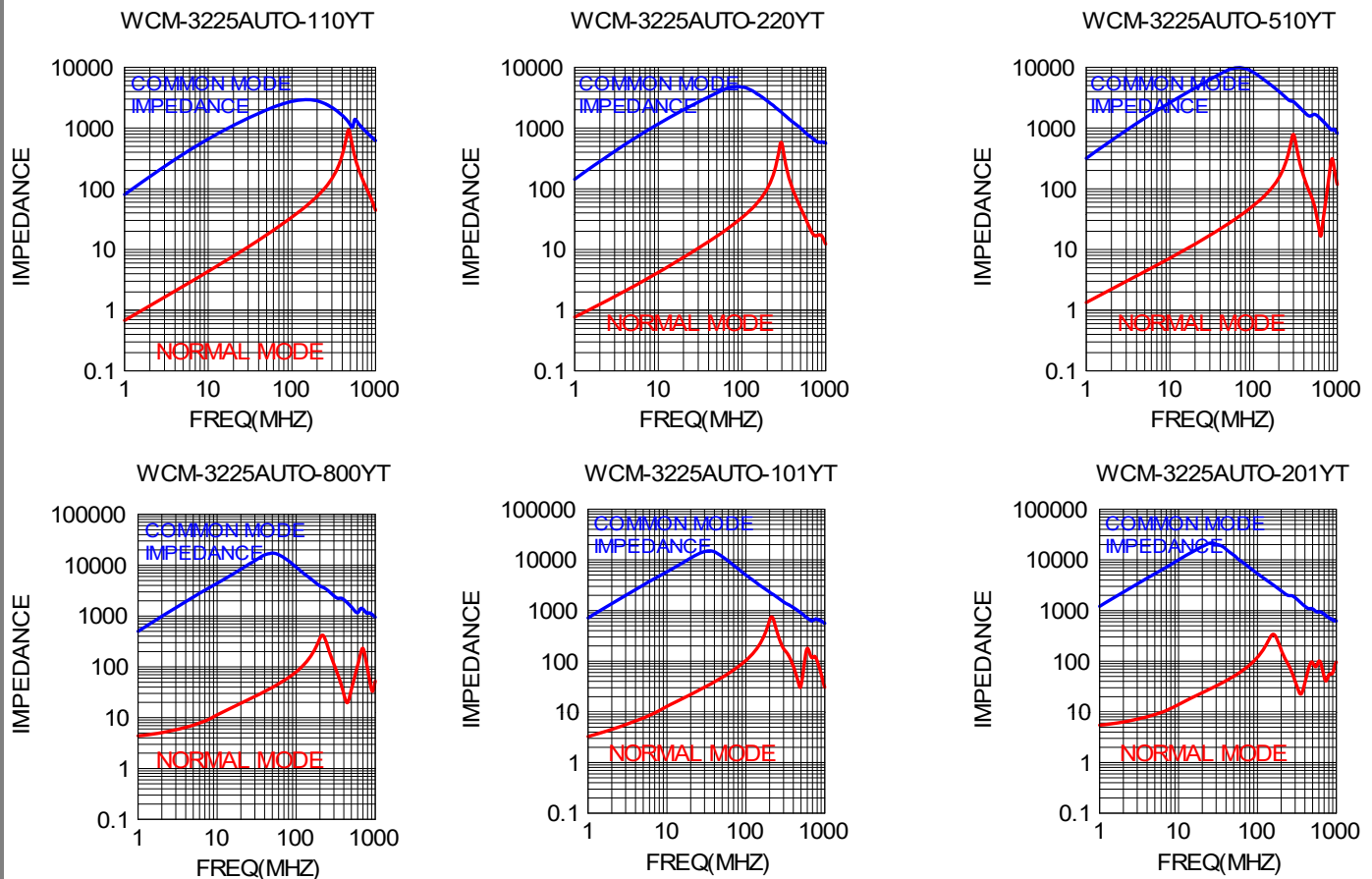
**KING CORE ELECTRONICS INC.**  
 Tel:886-3-4698855 Fax:886-3-4691395

No.269,Nanfong Rd.,Pingjhen City,Taoyuan County, Taiwan  
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# COMMON MODE CHOKE → WCM-3225AUTO SERIES

## ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE	Impedance	DC Resistance	IDC	Rated Voltage	Insulation Resistance
	( $\mu$ H)	( $\Omega$ )min	( $\Omega$ )			
	100KHz/100mV	10MHz/100mV	max	(mA)	V	(M $\Omega$ )
				max	(DC)	min
WCM-3225AUTO-110YT	11+50(-30)%	300	0.4	300	80	10
WCM-3225AUTO-220YT	22+50(-30)%	500	0.5	250	80	10
WCM-3225AUTO-510YT	51+50(-30)%	1000	0.7	200	80	10
WCM-3225AUTO-800YT	80+50(-30)%	1800	1.5	200	80	10
WCM-3225AUTO-101YT	100+50(-30)%	2200	1.9	150	80	10
WCM-3225AUTO-201YT	200+50(-30)%	4000	4.0	100	80	10



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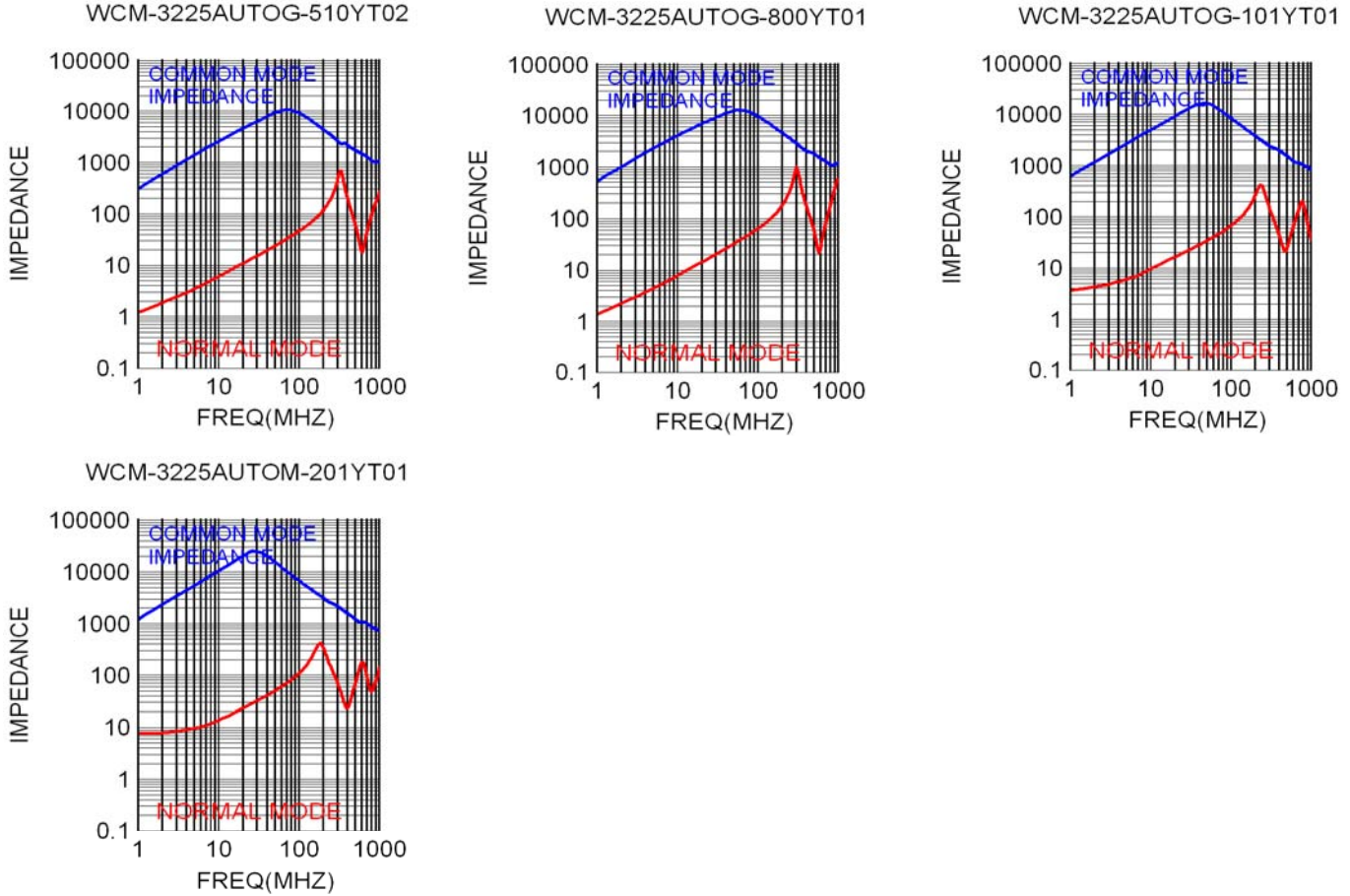
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# COMMON MODE CHOKE → WCM-3225AUTO-G/-M SERIES

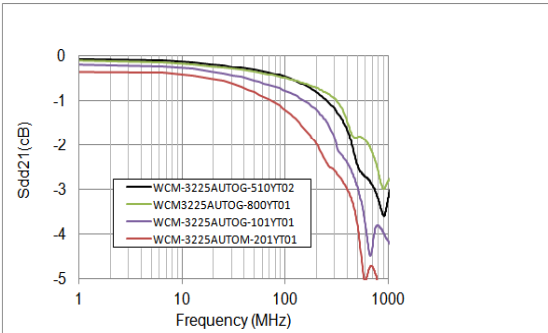
## ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE	Impedance	DC Resistance	IDC	Rated Voltage	Insulation Resistance
	( $\mu$ H) 100kHz/100mV	( $\Omega$ ) 10MHz Typ.	( $\Omega$ ) max.	(mA) max.	V (DC) max.	(M $\Omega$ ) min.
WCM-3225AUTOG-510YT02	51+50(-30)%	2500	3.0	115	80	10
WCM-3225AUTOG-800YT01	80+50(-30)%	3500	2.4	70	80	10
WCM-3225AUTOG-101YT01	100+50(-30)%	5000	3.0	115	80	10
WCM-3225AUTOM-201YT01	200+50(-20)%	10000	4.8	70	80	10

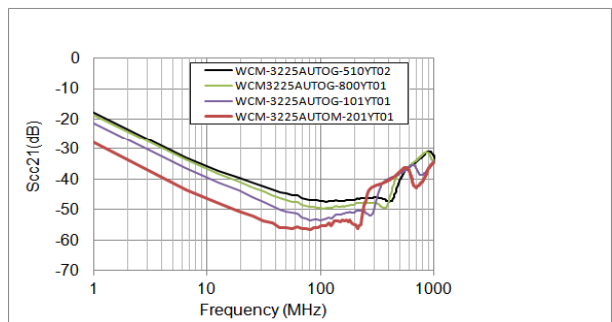
■ Application: G type for OPEN ALLIANCE 1000BASE-T1 : M type for OPEN ALLIANCE 100BASE-T1



■ Sdd21



■ Scc21



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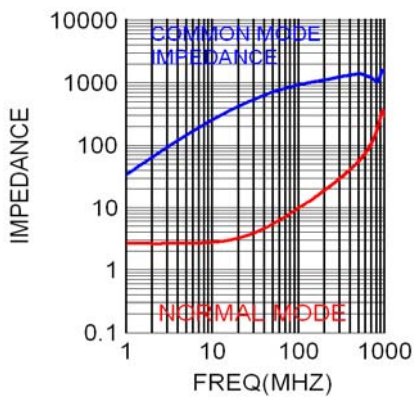
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# COMMON MODE CHOKE → WCM-3225AUTO SERIES

## ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)	DC Resistance (Ω)	IDC (mA)	Rated Voltage V (DC)	Insulation Resistance (MΩ)	
	100MHz	max	max		min	
WCM-3225AUTO-102A15T	1000±25%	0.160	1500	80	10	

WCM-3225AUTO-102A15T



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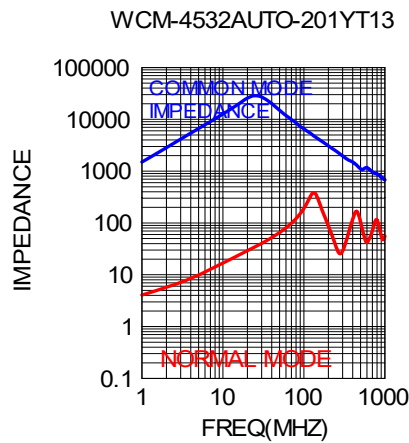
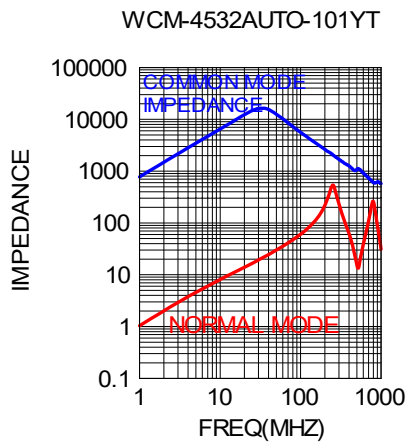
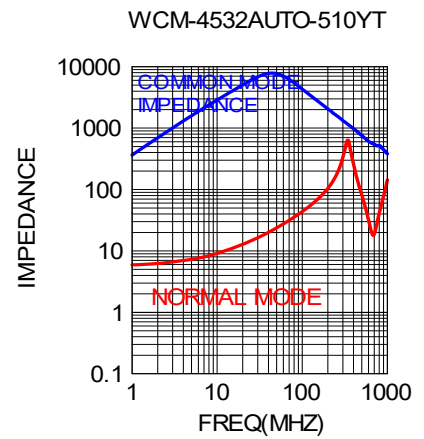
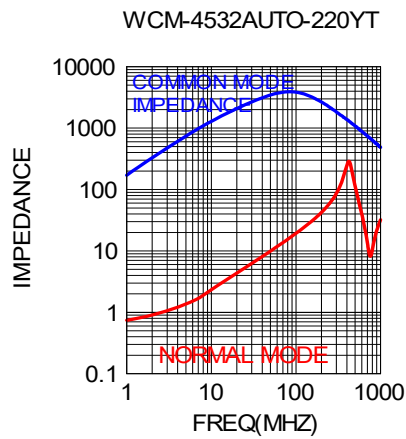
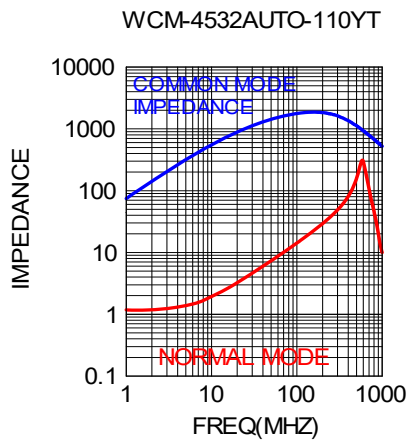
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# COMMON MODE CHOKE → WCM-4532AUTO SERIES

## ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE	Impedance	DC Resistance	IDC	Rated Voltage	Insulation Resistance
	( $\mu$ H) 100KHz/100mV	( $\Omega$ )TYP 10MHz/100mV	( $\Omega$ ) max			
WCM-4532AUTO-110YT	11+50(-30)%	600	0.6	250	50	10
WCM-4532AUTO-220YT	22+50(-30)%	1200	1.0	200	50	10
WCM-4532AUTO-510YT	51+50(-30)%	2800	1.0	200	50	10
WCM-4532AUTO-101YT	100+50(-30)%	5800	2.0	150	50	10
WCM-4532AUTO-201YT13	200+60(-20)	13000	4.5	100	50	10



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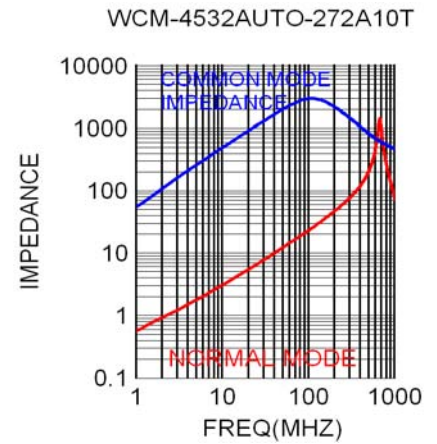
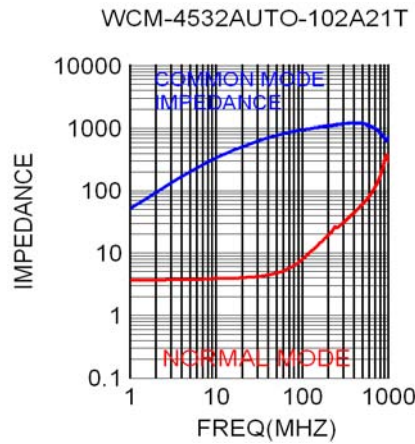
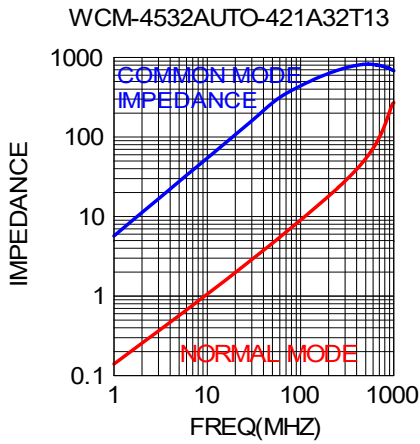
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# COMMON MODE CHOKE → WCM-4532AUTO SERIES

## ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)	Impedance (Ω)TYP	DC Resistance (Ω)	IDC (mA)	Rated Voltage V (DC)	Insulation Resistance (MΩ)
	100MHz	10MHz	max	max		min
WCM-4532AUTO-421A32T13	420±25%	55	0.052	3200	50	10
WCM-4532AUTO-102A21T	1000±25%	-	0.110	2100	80	10
WCM-4532AUTO-272A10T	2700±25%	-	0.150	1000	50	10



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