

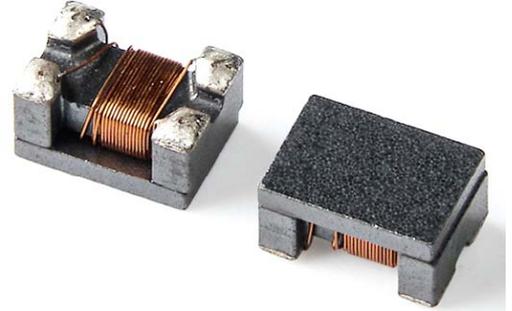
SPECIFICATION OF WCM-□□□□AUTO SERIES

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



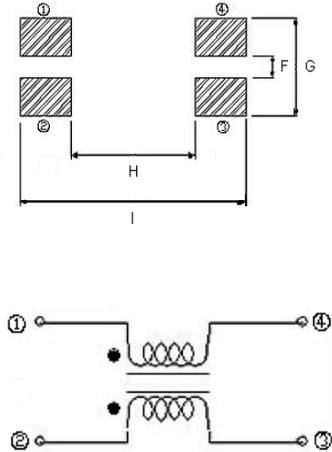
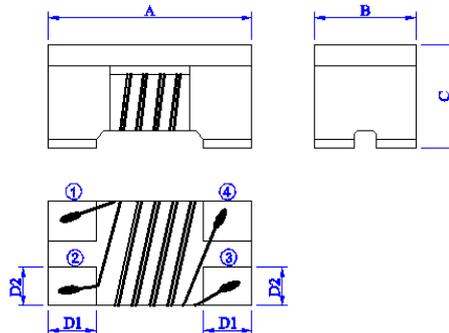
APPLICATIONS

- 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	2.00±0.20	1.20±0.20	1.20±0.20	0.45	0.40	0.40	1.20	0.80	2.60		
(0805)	(0.079±0.008)	(0.047±0.008)	(0.047±0.008)	(0.018)	(0.016)	(0.016)	(0.047)	(0.031)	(0.102)		
WCM-3225AUTO	3.30±0.20	2.60±0.20	2.6max	0.50	0.90	0.60	3.50	1.60	4.00		
(1210)	(0.13±0.008)	(0.102±0.008)	(0.102±0.008)	(0.019)	(0.035)	(0.024)	(0.138)	(0.063)	(0.157)		
WCM-3225AUTO-G/-M	3.30±0.20	2.60±0.20	2.4max	0.50	0.90	0.60	3.50	1.60	4.00		
(1210)	(0.13±0.008)	(0.102±0.008)	(0.094±0.008)	(0.019)	(0.035)	(0.024)	(0.138)	(0.063)	(0.157)		
WCM-4532AUTO	4.50±0.20	3.20±0.20	2.80+0.35(-0.2)	1.00	1.20	0.40	3.60	2.10	4.90		
(1812)	(0.177±0.008)	(0.126±0.008)	(0.110±0.008)	(0.039)	(0.039)	(0.016)	(0.141)	(0.082)	(0.192)		

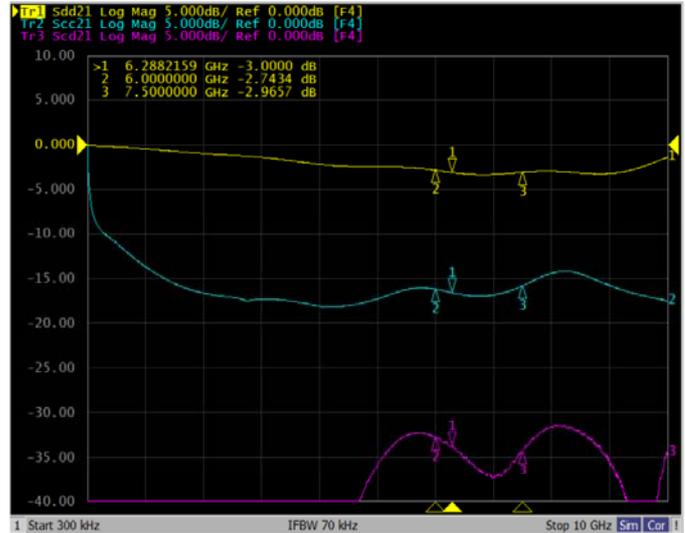
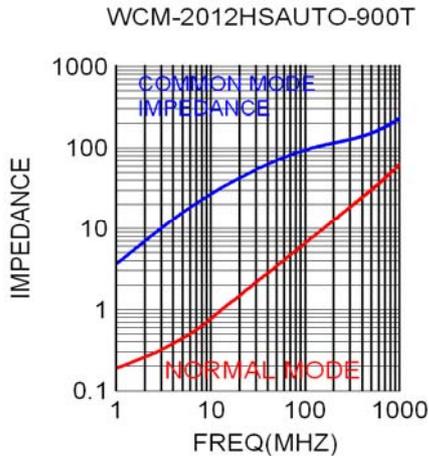
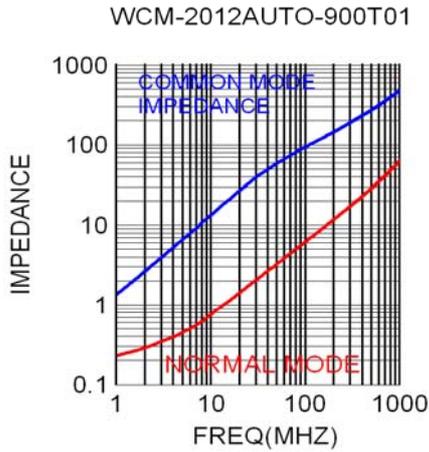
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COMMON MODE CHOKE → WCM-2012AUTO SERIES

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)

* Design as Customer's Requested Specifications.

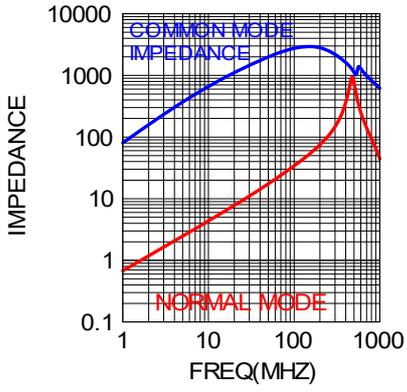
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COMMON MODE CHOKE → WCM-3225AUTO SERIES

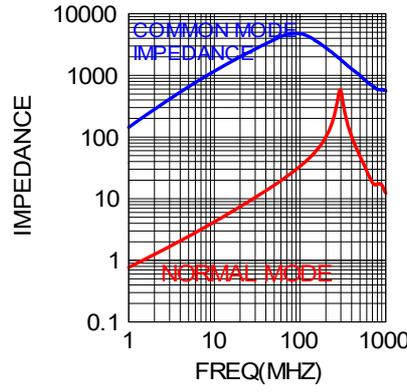
ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE	Impedance	DC Resistance	IDC	Rated Voltage	Insulation Resistance
	(uH)	(Ω)min	(Ω)			
	100KHz/100mV	10MHz/100mV	max	(mA)	V	(MΩ)
				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

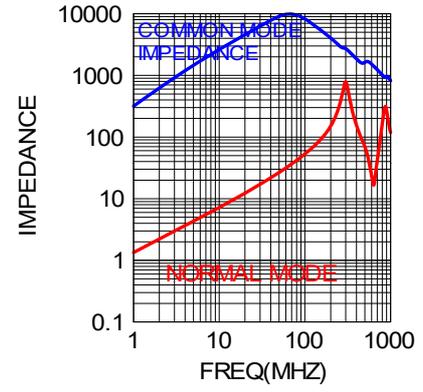
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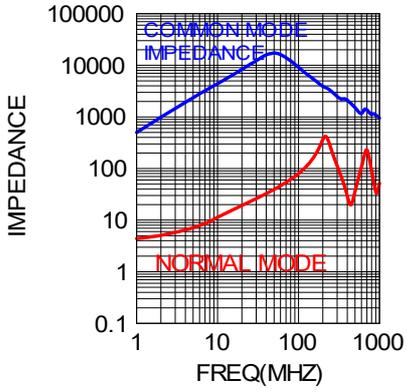
WCM-3225AUTO-220YT



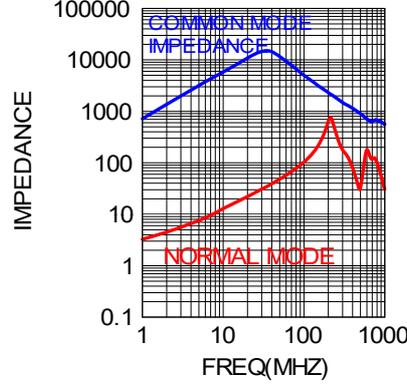
WCM-3225AUTO-510YT



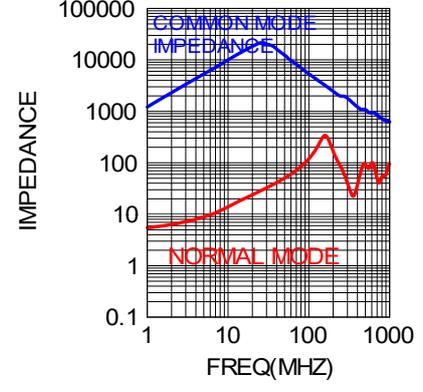
WCM-3225AUTO-800YT



WCM-3225AUTO-101YT



WCM-3225AUTO-201YT



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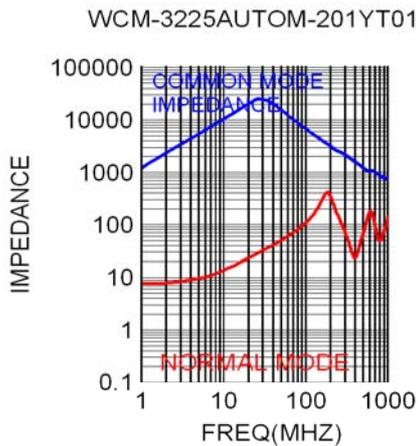
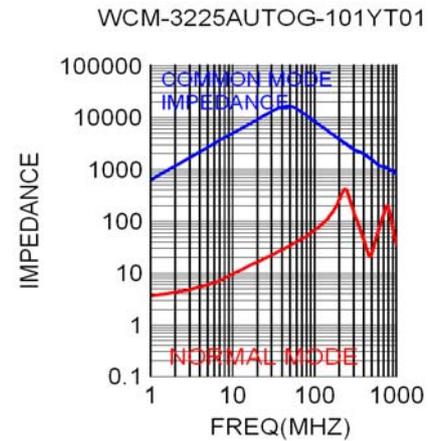
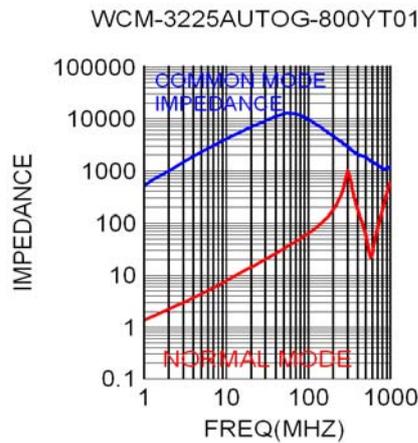
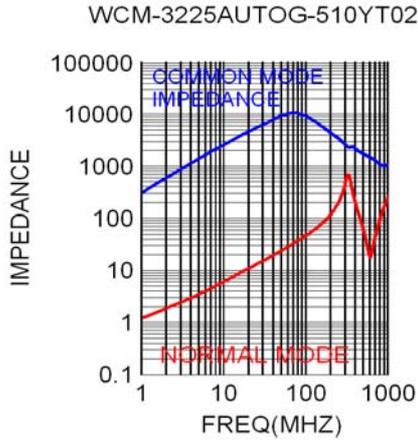
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COMMON MODE CHOKE → WCM-3225AUTO-G/-M SERIES

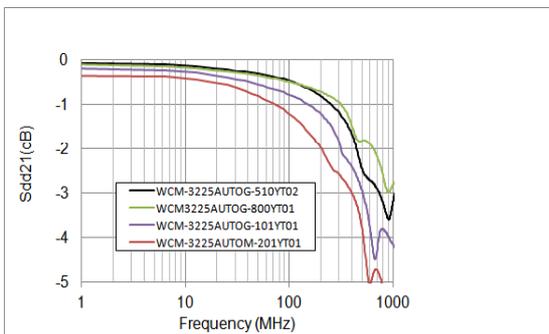
ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE	Impedance	DC Resistance	IDC	Rated Voltage	Insulation Resistance
	(μ H) 100KHz/100mV	(Ω) 10MHz Typ.	(Ω) max.	(mA) max.	V (DC) max.	(M Ω) 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

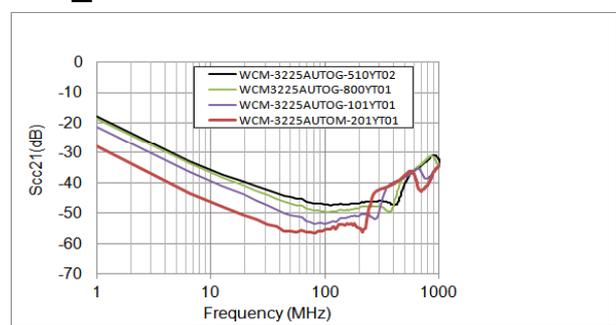
■ Application: G type for OPEN ALLIANCE 1000BASE-T1 : M type for OPEN ALLIANCE 100BASE-T1



■ Sdd21



■ Scc21



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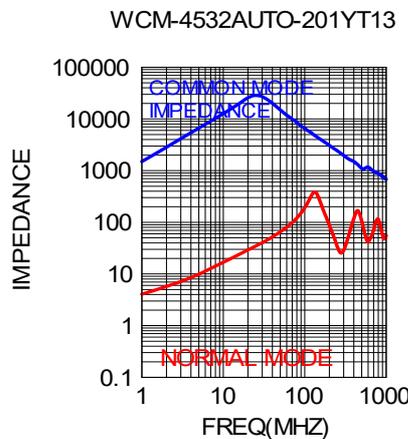
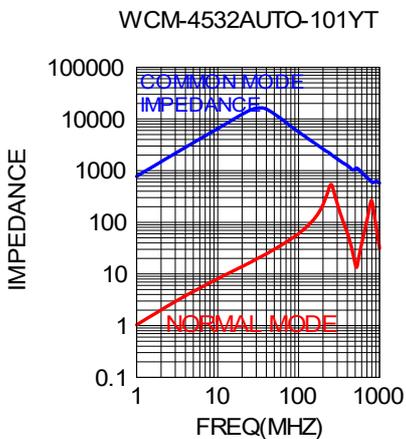
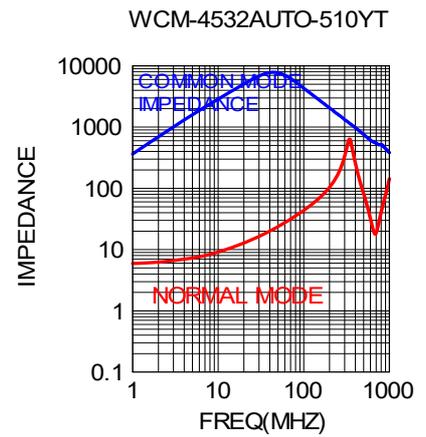
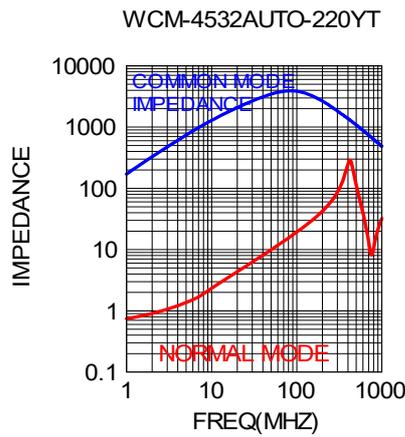
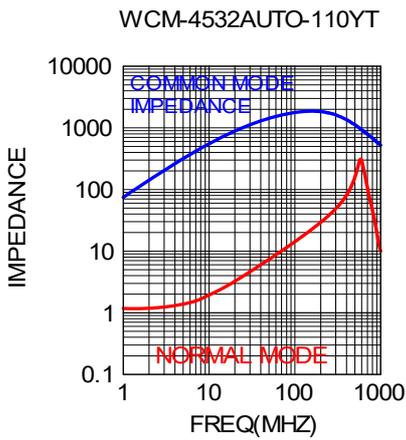
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COMMON MODE CHOKE → WCM-4532AUTO SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE	Impedance	DC Resistance	IDC	Rated Voltage	Insulation Resistance
	(μ H) 100KHz/100mV	(Ω)TYP 10MHz/100mV	(Ω) max	(mA) max	V (DC)	(M Ω) min
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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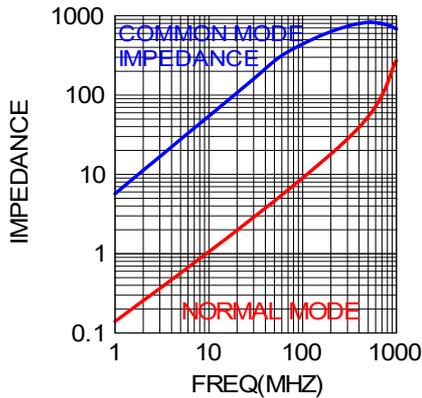
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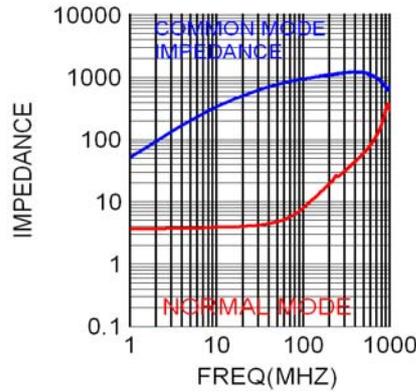
ELECTRICAL CHARACTERISTICS

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

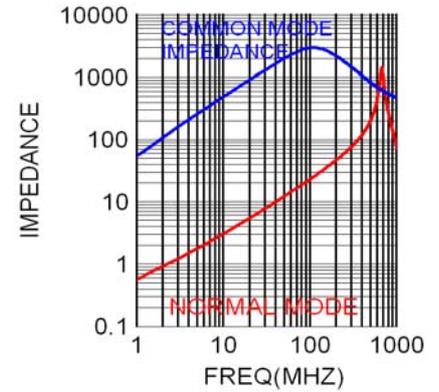
WCM-4532AUTO-421A32T13



WCM-4532AUTO-102A21T



WCM-4532AUTO-272A10T



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