

SPECIFICATION OF WCM SERIES

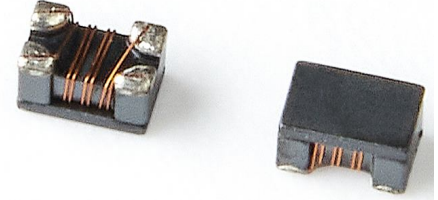
FEATURES

Lowprofile and very small size SMD Design,
Wound Chip constructure with standard 0805
to 1812 size, with best EMI suppression effect
but least impact to data signal wave form.



APPLICATIONS

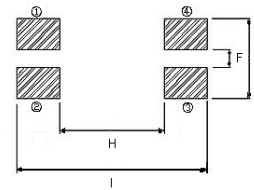
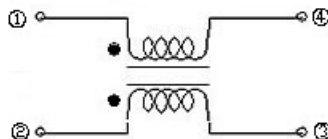
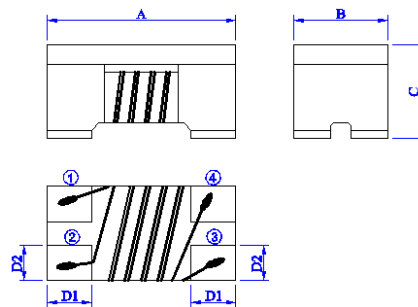
Preventive measure against high speed signal
radiation emissions such as USB 2.0,
IEEE1394 or LAN interface.
Best for NB, DSC, mobile device design.



ORDERING CODE

WCM-2012-900 T
(1) (2) (3) (4)

- (1) PRODUCT TYPE CODE
- (2) PRODUCT SIZE CODE
- (3) IMPEDANCE
- (4) TAPING



APPEARANCE & DIMENSIONS

UNIT:mm (inch)

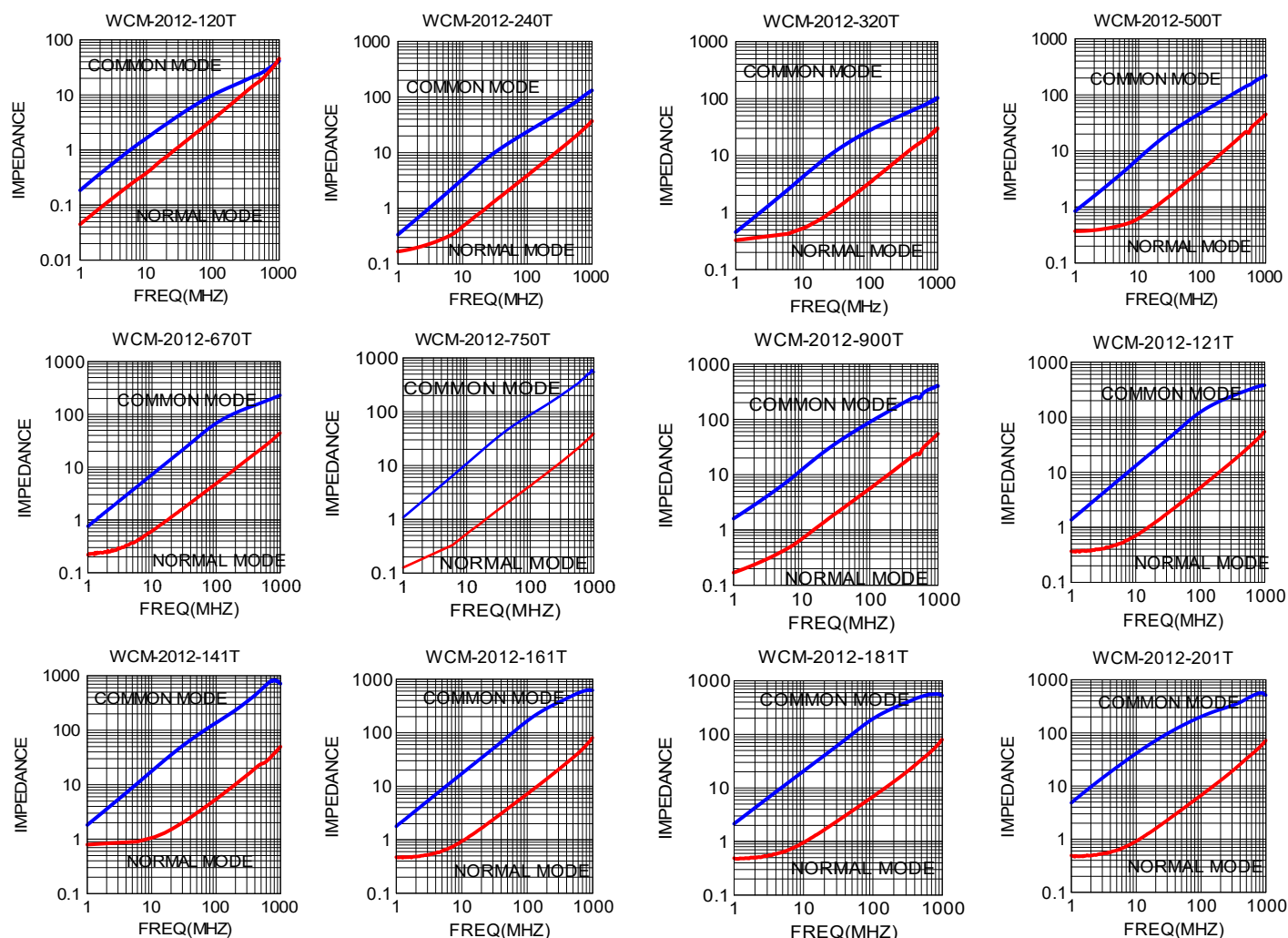
SIZE CODE	A	B	C	D1 TYP	D2 TYP	F TYP	G TYP	H TYP	I TYP		
WCM-2012 (0805)	2.00±0.20 (0.079±0.008)	1.20±0.20 (0.047±0.008)	1.20±0.20 (0.047±0.008)	0.45 (0.018)	0.40 (0.016)	0.40 (0.016)	1.20 (0.047)	0.80 (0.031)	2.60 (0.102)		
WCM-2520 (1008)	2.50±0.20 (0.098±0.008)	2.00±0.20 (0.079±0.008)	1.20±0.20 (0.047±0.008)	0.50 (0.020)	0.70 (0.028)	0.50 (0.020)	2.10 (0.083)	1.50 (0.063)	3.10 (0.146)		
WCM-3216 (1206)	3.20±0.20 (0.126±0.008)	1.60±0.20 (0.063±0.008)	2.00±0.20 (0.079±0.008)	0.60 (0.024)	0.60 (0.024)	0.40 (0.016)	1.60 (0.063)	1.60 (0.063)	3.70 (0.146)		
WCM-3225 (1210)	3.30±0.20 (0.129±0.008)	2.60±0.20 (0.102±0.008)	2.50±0.15 (0.098±0.008)	0.50 (0.020)	0.90 (0.035)	0.60 (0.023)	3.50 (0.137)	1.60 (0.063)	4.00 (0.157)		
WCM-4525 (1810)	4.80±0.20 (0.189±0.008)	2.80±0.20 (0.110±0.008)	2.20+0.35(-0.20) (0.087+0.0137-0.0078)	0.75 (0.030)	0.75 (0.030)	0.70 (0.027)	2.70 (0.106)	3.00 (0.118)	5.50 (0.216)		
WCM-4532 (1812)	4.50±0.20 (0.177±0.008)	3.20±0.20 (0.126±0.008)	2.80+0.35(-0.20) (0.110+0.0137-0.0078)	1.00 (0.039)	1.00 (0.039)	0.40 (0.016)	3.60 (0.141)	2.10 (0.082)	4.90 (0.192)		
WCM-453226 (1812)	4.50±0.20 (0.177±0.008)	3.20±0.20 (0.126±0.008)	2.60+0.45(-0.20) (0.102+0.0177-0.0078)	1.00 (0.039)	1.00 (0.039)	0.40 (0.016)	3.60 (0.141)	2.10 (0.082)	4.90 (0.192)		

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COMMON MODE CHOKE → WCM-2012 SERIES

ELECTRICAL CHARACTERISTICS

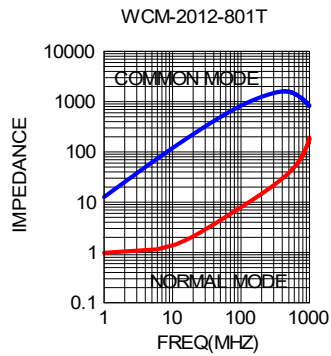
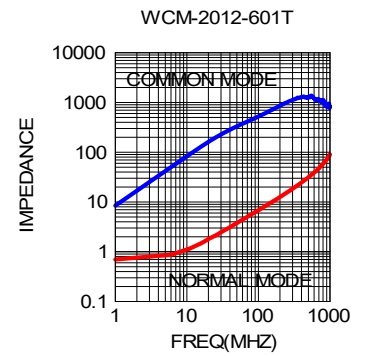
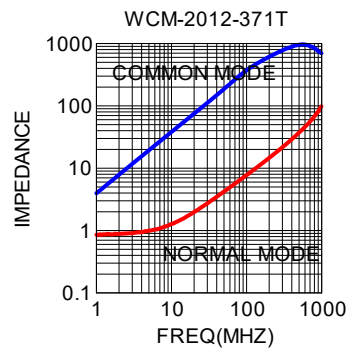
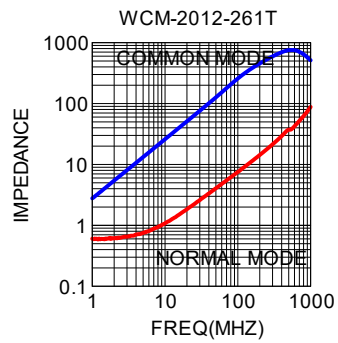
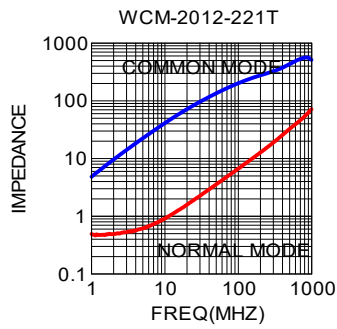
ORDERING CODE	Impedance (Ω)	Tolerance ±%	Test Frequency (MHz)	DC Resistance (Ω)max	IDC (mA)max	
WCM-2012-120T	12	25%	100	0.20	450	
WCM-2012-240T	24	25%	100	0.25	420	
WCM-2012-320T	32	25%	100	0.25	400	
WCM-2012-500T	50	25%	100	0.25	400	
WCM-2012-670T	67	25%	100	0.25	400	
WCM-2012-750T	75	25%	100	0.70	280	
WCM-2012-900T	90	25%	100	0.30	400	
WCM-2012-121T	120	25%	100	0.30	370	
WCM-2012-141T	140	25%	100	0.32	360	
WCM-2012-161T	160	25%	100	0.35	350	
WCM-2012-181T	180	25%	100	0.35	330	
WCM-2012-201T	200	25%	100	0.40	300	
WCM-2012-221T	220	25%	100	0.40	300	
WCM-2012-261T	260	25%	100	0.40	300	
WCM-2012-371T	370	25%	100	0.45	280	
WCM-2012-601T	600	25%	100	0.80	230	
WCM-2012-801T	800	25%	100	0.90	220	



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COMMON MODE CHOKE → WCM-2012 SERIES

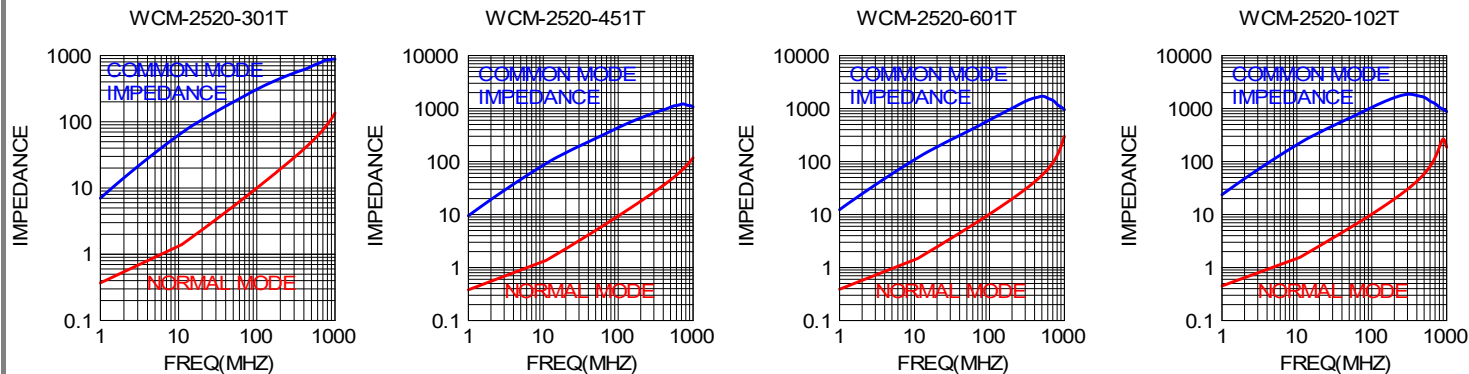


- ※IDC:Based on Temperature increase 40℃
- ※Operating temperature range : -25 to +85℃ (including self-generated heat)
- * Design as Customer's Requested Specifications.

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COMMON MODE CHOKE → WCM-2520 SERIES

ELECTRICAL CHARACTERISTICS

[illegible]

※IDC:Based on Temperature increase 40℃

※Operating temperature range : -25 to +85°C (including self-generated heat)

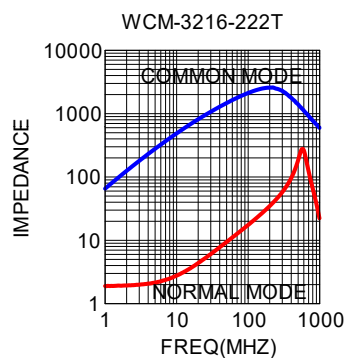
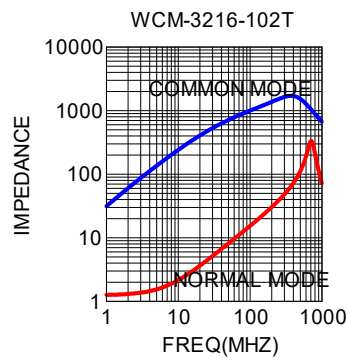
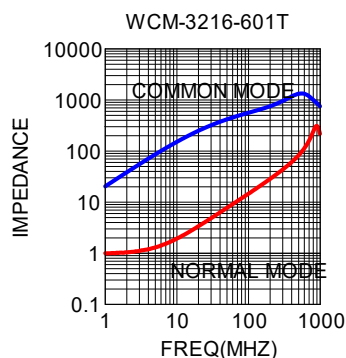
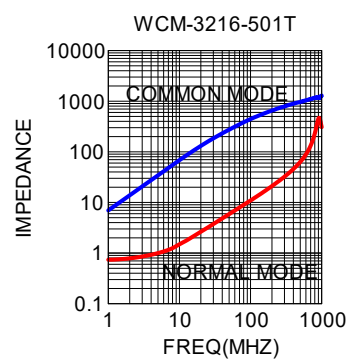
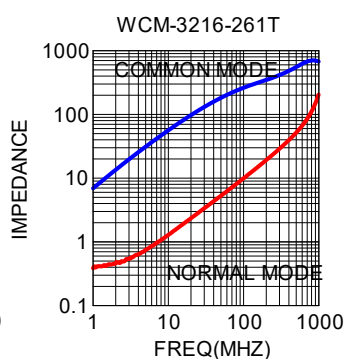
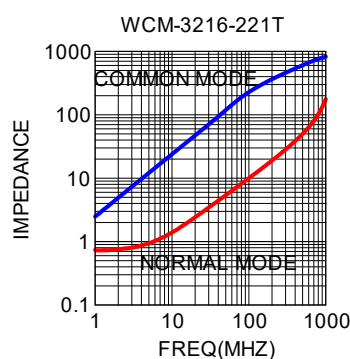
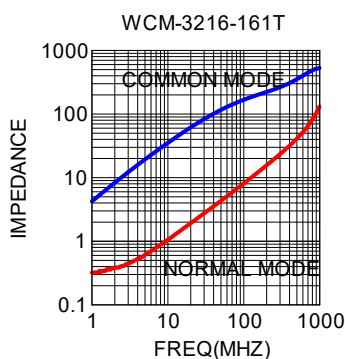
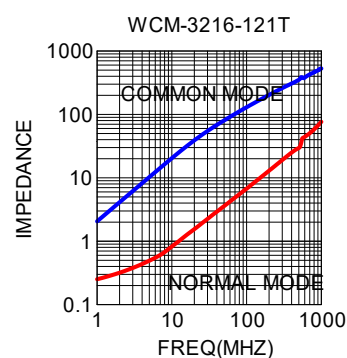
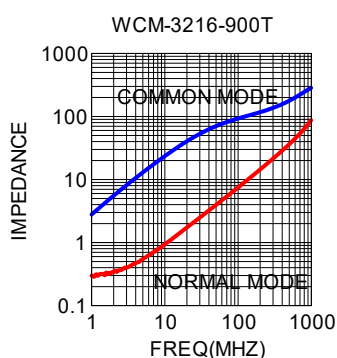
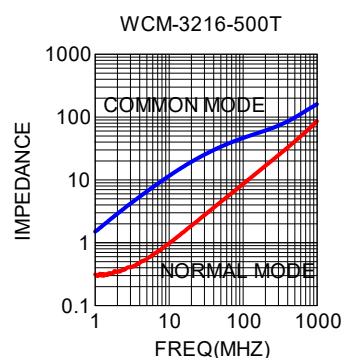
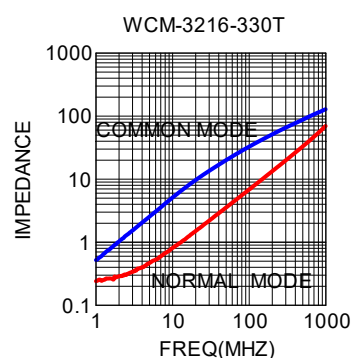
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COMMON MODE CHOKE → WCM-3216 SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)	Tolerance ±%	Test Frequency (MHz)	DC Resistance (Ω)max	IDC (mA)max	
WCM-3216-330T	33	25%	100	0.20	400	
WCM-3216-500T	50	25%	100	0.25	400	
WCM-3216-900T	90	25%	100	0.30	400	
WCM-3216-121T	120	25%	100	0.30	400	
WCM-3216-161T	160	25%	100	0.40	350	
WCM-3216-221T	220	25%	100	0.45	300	
WCM-3216-261T	260	25%	100	0.50	310	
WCM-3216-501T	500	25%	100	0.80	260	
WCM-3216-601T	600	25%	100	0.80	260	
WCM-3216-102T	1000	25%	100	1.00	250	
WCM-3216-222T	2200	25%	100	1.20	200	



※IDC:Based on Temperature increase 40℃

※Operating temperature range : -25 to +85℃ (including self-generated heat)

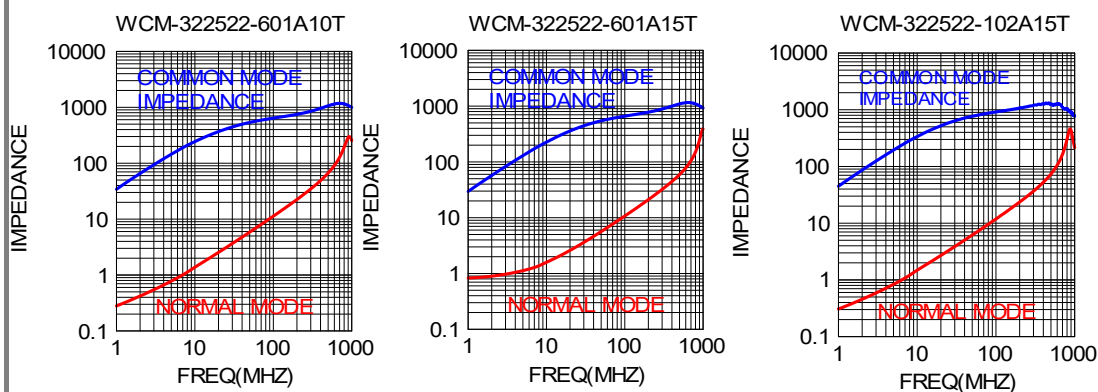
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COMMON MODE CHOKE → WCM-3225 SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)	Tolerance ±%	Test Frequency (MHz)	DC Resistance (Ω)max	IDC (mA)max	
WCM-322522-601A10T	600	25%	100	0.20	1000	
WCM-322522-601A15T	600	25%	100	0.20	1500	
WCM-322522-102A15T	1000	25%	100	0.16	1500	



※IDC:Based on Temperature increase 40℃

※Operating temperature range : -25 to +85℃ (including self-generated heat)

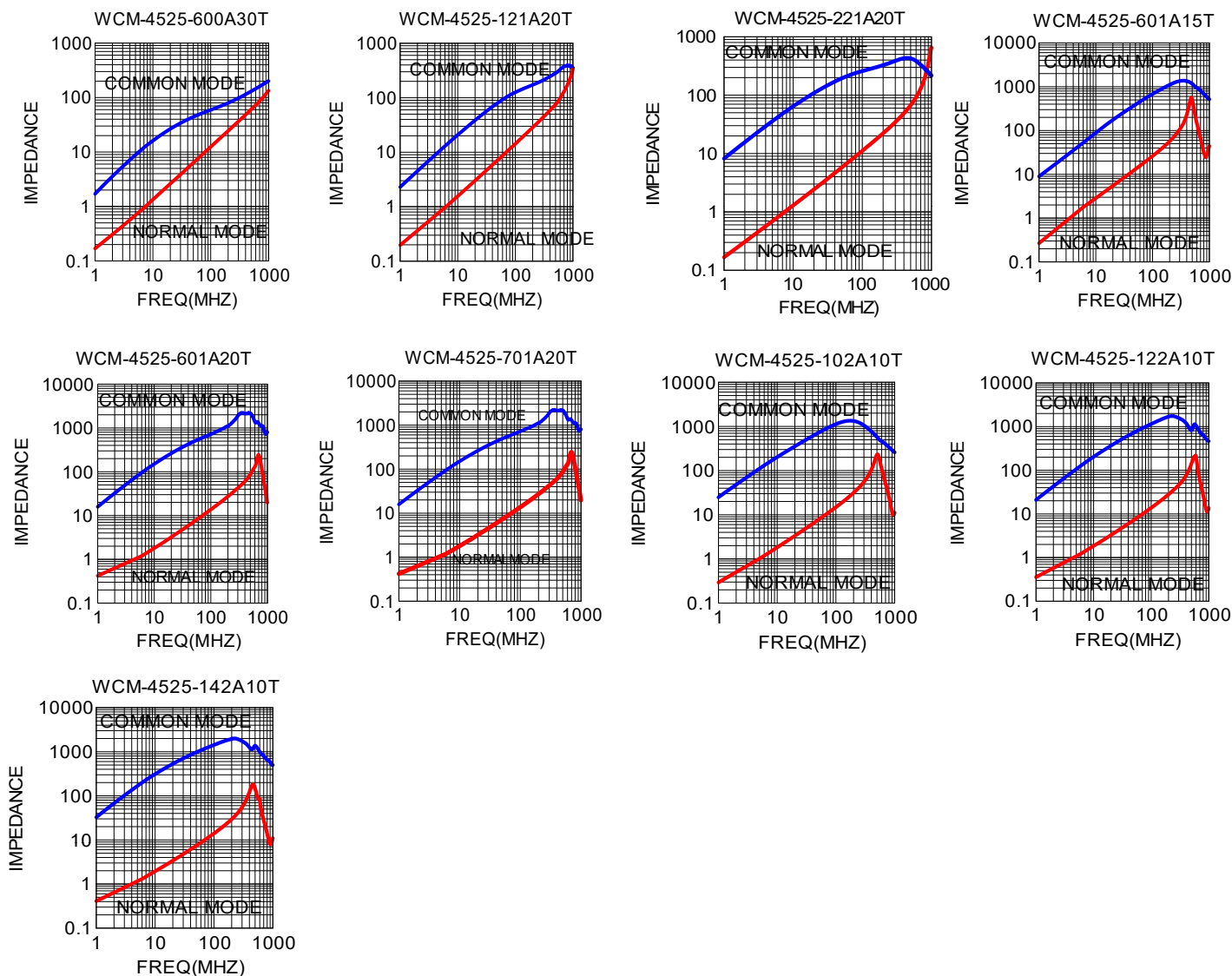
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COMMON MODE CHOKE → WCM-4525 SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)	Tolerance ±%	Test Frequency (MHz)	DC Resistance (Ω)max	IDC (mA)max	
WCM-4525-600A30T	60	25%	100	0.10	3000	
WCM-4525-121A20T	120	25%	100	0.20	2000	
WCM-4525-221A20T	220	25%	100	0.20	2000	
WCM-4525-601A15T	600	25%	100	0.30	1500	
WCM-4525-601A20T	600	25%	100	0.20	2000	
WCM-4525-701A20T	700	25%	100	0.15	2000	
WCM-4525-102A10T	1000	25%	100	0.40	1000	
WCM-4525-122A10T	1200	25%	100	0.40	1000	
WCM-4525-142A10T	1400	25%	100	0.40	1000	



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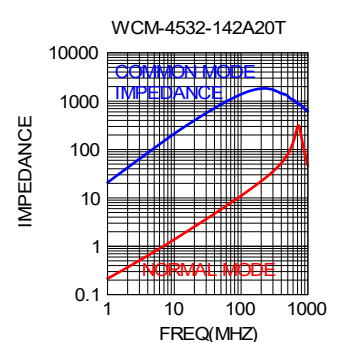
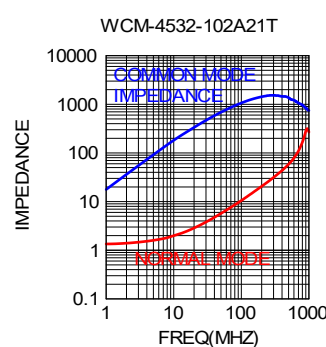
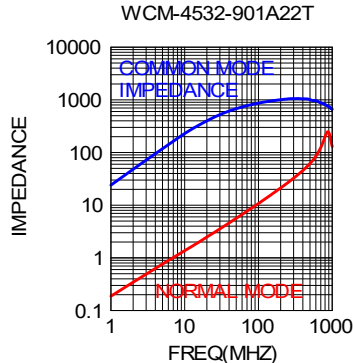
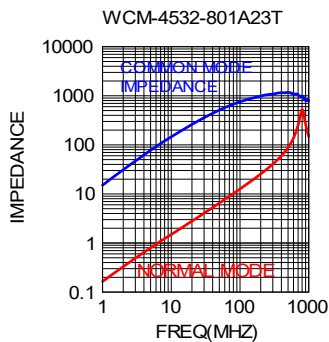
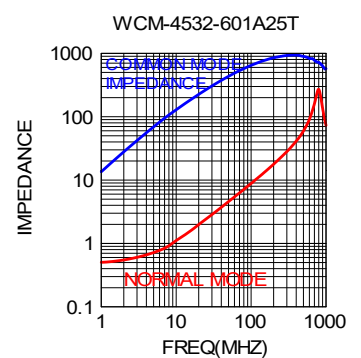
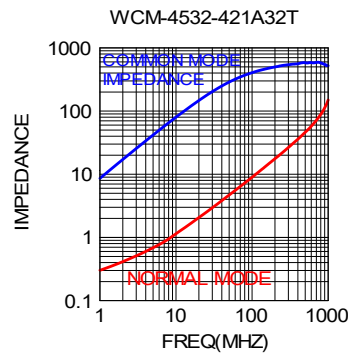
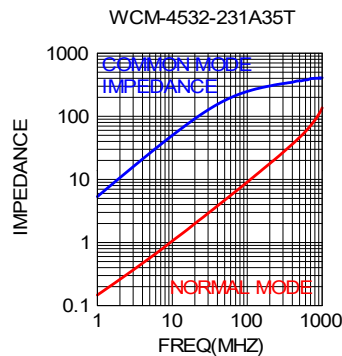
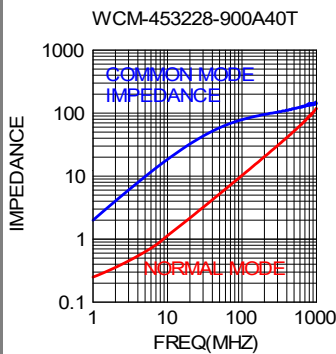
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COMMON MODE CHOKE → WCM-4532 SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	Impedance (Ω)	Tolerance ±%	Test Frequency (MHz)	DC Resistance (Ω)max	IDC (mA)max	
WCM-453228-900A40T	90	25%	100	0.050	4000	
WCM-4532-231A35T	230	25%	100	0.051	3500	
WCM-4532-421A32T	420	25%	100	0.052	3200	
WCM-4532-601A25T	600	25%	100	0.065	2500	
WCM-4532-801A23T	800	25%	100	0.100	2300	
WCM-4532-901A22T	900	25%	100	0.100	2200	
WCM-4532-102A21T	1000	25%	100	0.110	2100	
WCM-4532-142A20T	1400	25%	100	0.120	2000	



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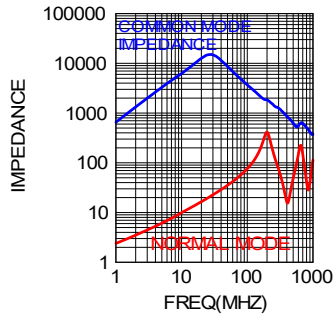
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COMMON MODE CHOKE → WCM-453226 SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE (uH) 100KHz/100mV	IMPEDANCE (Ω)TYP 10MHz	DC Resistance (Ω) max	IDC (mA) max	Rated Voltage V (DC)	Insulation Resistance (mΩ) min
WCM-453226-101YT04	100+50(-30)%	5800	2.0	150	50	10

WCM-453226-101YT04



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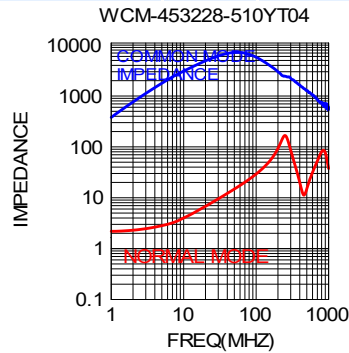
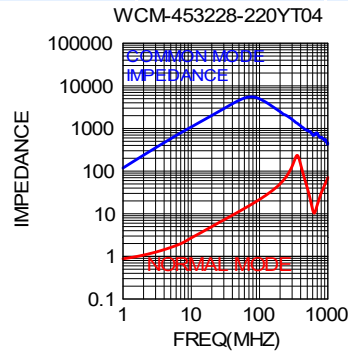
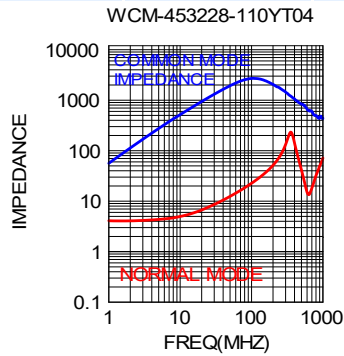
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COMMON MODE CHOKE → WCM-453228 SERIES

ELECTRICAL CHARACTERISTICS

ORDERING CODE	INDUCTANCE (uH) 100KHz/100mV	IMPEDANCE (Ω)TYP 10MHz	DC Resistance (Ω) max	IDC (mA) max	Rated Voltage V (DC)	Insulation Resistance (mΩ) min
WCM-453228-110YT04	11+50(-30)%	600	0.6	250	50	10
WCM-453228-220YT04	22+50(-30)%	1200	1.0	200	50	10
WCM-453228-510YT04	51+50(-30)%	2800	1.0	200	50	10



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