

SMD Wire Wound Common Mode Choke---SCW Series



Feature

- Winding type realizes small size and low profile.
- Prevention of common mode noise at high frequency.
- RoHS compliant and halogen free.
- Operating temperature range $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$.

Application

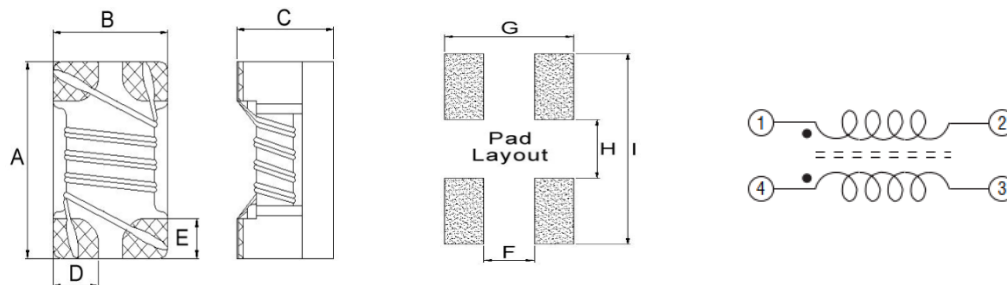
- EMI suppression for data and signal lines.
- Communications, Computers, Noise suppression, etc.
- Consumer electronics.

Production identification

SCW 2012 - 181 Y
① ② ③ ④

- ① Series name: SMD Common Mode Choke
- ② Size: $2.0 \times 1.2 \times 1.2\text{mm}$
- ③ Impedance: 180Ω
- ④ Tolerance: $\pm 25\%$

Series Shape and Dimensions (Unit:mm)



Series	A	B	C	D _{Typ}	E _{Typ}	F _{Typ}	G _{Typ}	H _{Typ}	I _{Typ}	SPQ
SCW1608	1.6±0.1	0.8±0.1	1.1±0.1	0.25	0.33	0.3	1.0	0.7	2.1	2000
SCW2012	2.0±0.2	1.2±0.2	1.2±0.2	0.46	0.55	0.45	1.25	1.1	2.6	2000
SCW3216	3.2±0.2	1.6±0.2	2.0±0.2	0.5	0.5	0.4	1.6	1.9	3.7	2000
SCW4532	4.5±0.2	3.2±0.2	2.8±0.2	1.2	1.0	0.9	3.6	3.0	5.2	2000
SCW4532A	4.5±0.2	3.2±0.2	2.8±0.2	1.2	1.0	0.9	3.6	3.0	5.2	500

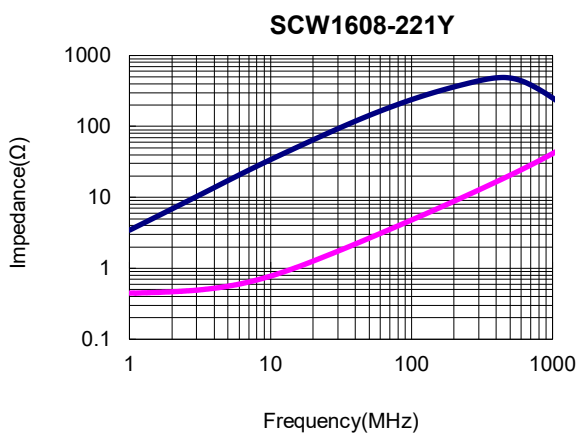
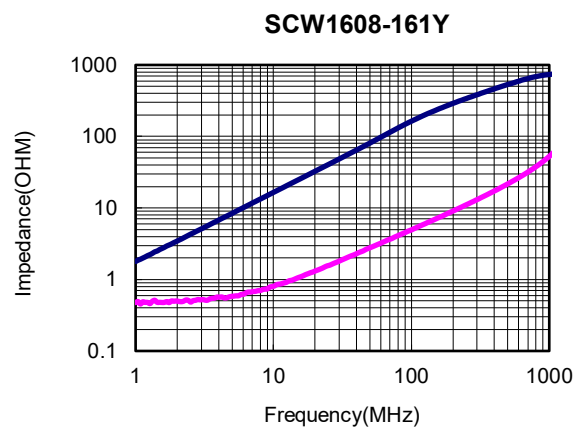
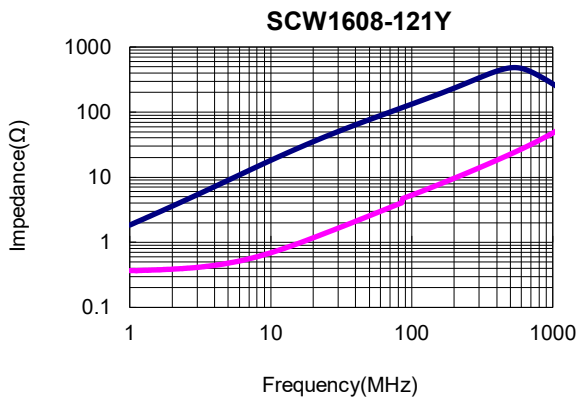
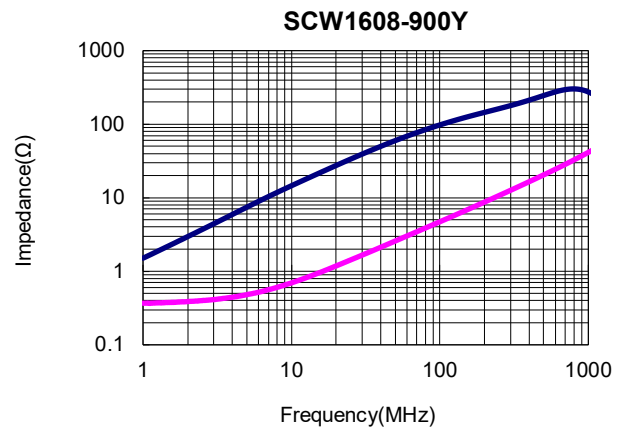
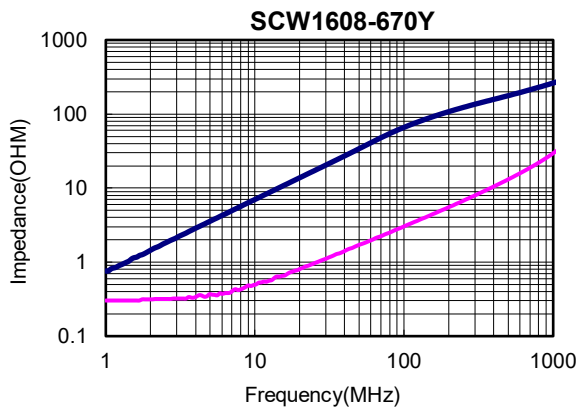
SMD Wire Wound Common Mode Choke---SCW Series



SCW1608 Electrical Characteristics

Part Number	Impedance @100MHz (Ω)	Tolerance (±%)	Rated Voltage (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ) Min	DCR Max (Ω)	IDC Max (mA)
SCW1608-670Y	67	25	50	125	10	0.30	300
SCW1608-900Y	90	25	50	125	10	0.30	300
SCW1608-121Y	120	25	50	125	10	0.36	250
SCW1608-161Y	160	25	50	125	10	0.40	200
SCW1608-221Y	220	25	50	125	10	0.42	200

Typical Impedance vs. Frequency Curves



SMD Wire Wound Common Mode Choke---SCW Series

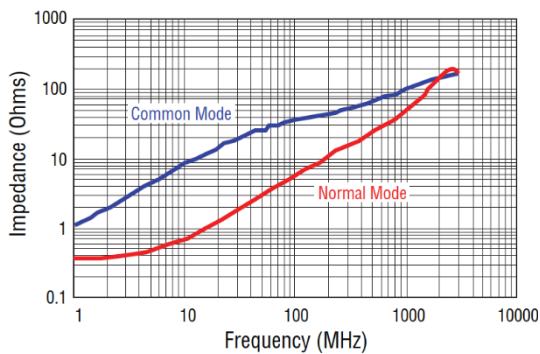


SCW2012 Electrical Characteristics

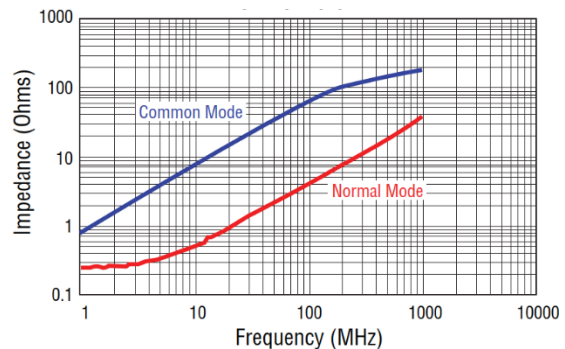
Part Number	Impedance @100MHz (Ω)	Tolerance (±%)	Rated Voltage (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ) Min	DCR Max (Ω)	IDC Max (mA)
SCW2012-300Y	30	25	50	250	10	0.20	400
SCW2012-670Y	67	25	50	250	10	0.25	400
SCW2012-900Y	90	25	50	250	10	0.30	400
SCW2012-121Y	120	25	50	250	10	0.30	400
SCW2012-161Y	160	25	50	250	10	0.35	350
SCW2012-181Y	180	25	50	250	10	0.35	350
SCW2012-201Y	200	25	50	250	10	0.40	300
SCW2012-221Y	220	25	50	250	10	0.40	300
SCW2012-261Y	260	25	50	250	10	0.40	300
SCW2012-301Y	300	25	50	250	10	0.50	300
SCW2012-361Y	360	25	50	250	10	0.50	300
SCW2012-371Y	370	25	50	250	10	0.50	300
SCW2012-501Y	500	25	50	250	10	0.50	300
SCW2012-671Y	670	25	50	250	10	0.60	140
SCW2012-901Y	900	25	50	250	10	0.88	100
SCW2012-102Y	1000	25	50	250	10	0.85	100

Typical Impedance vs. Frequency Curves

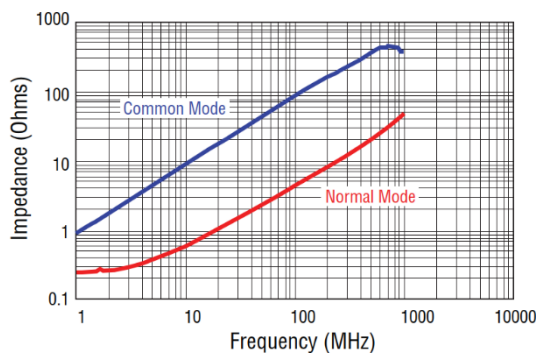
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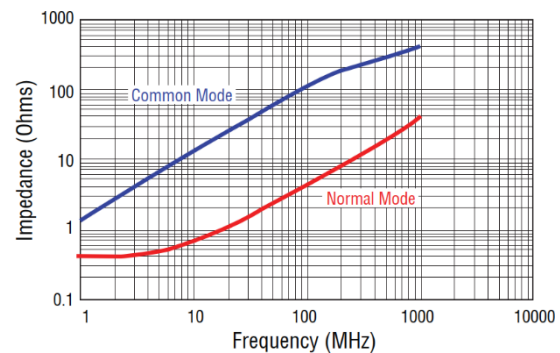
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SCW2012-900Y



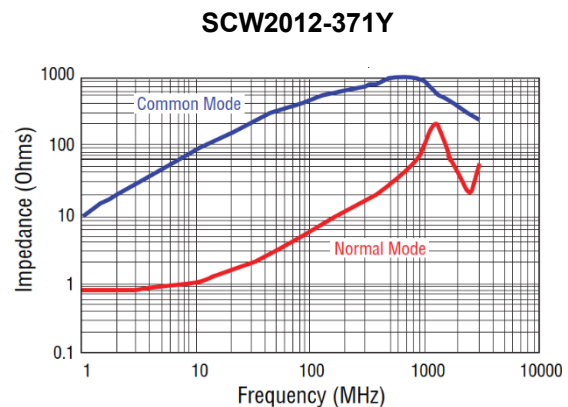
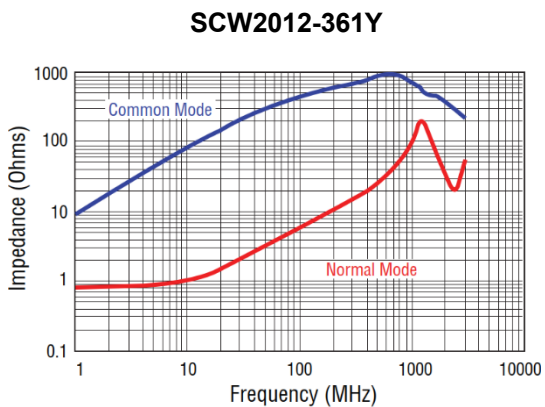
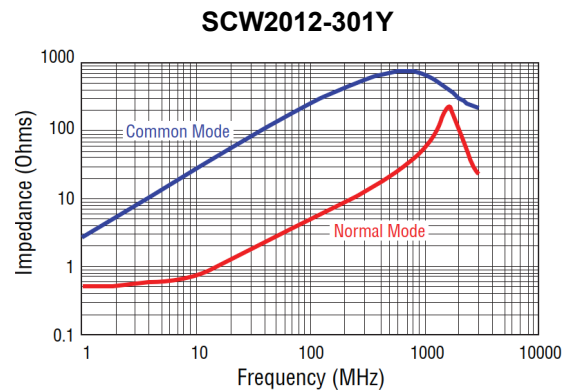
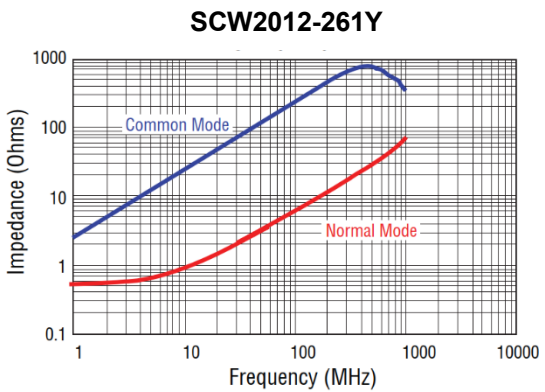
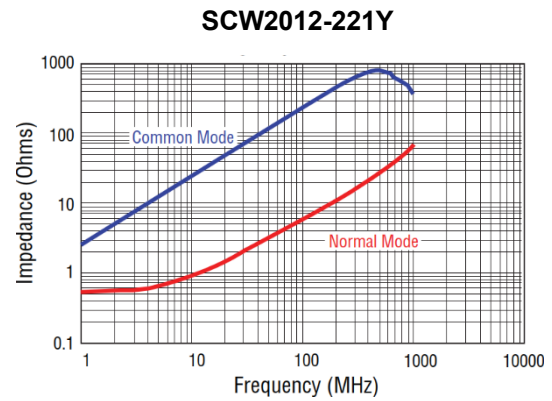
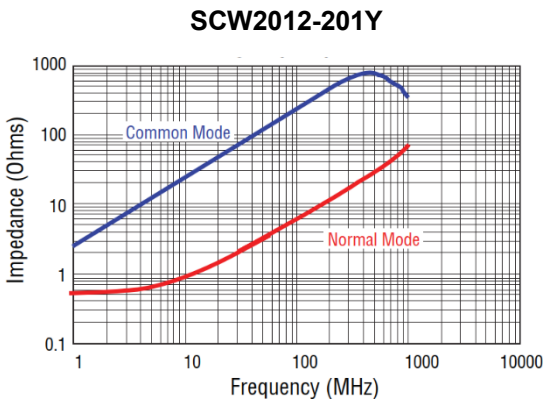
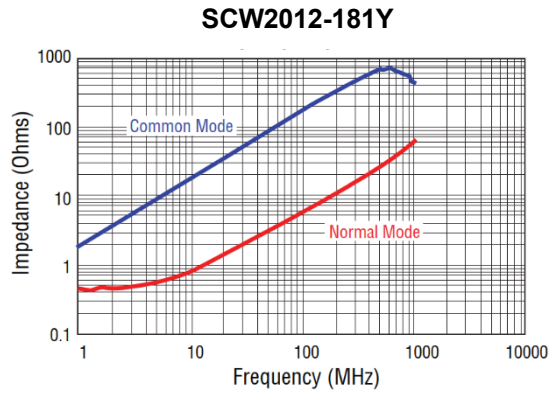
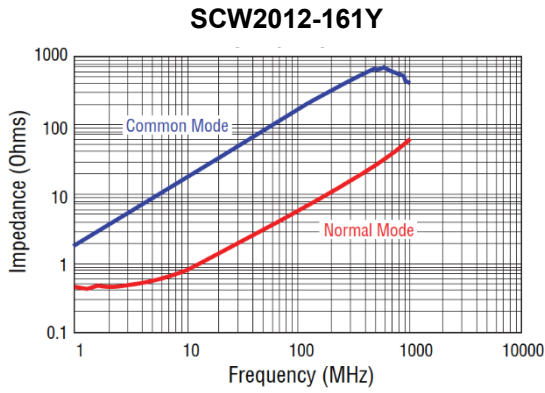
SCW2012-121Y



SMD Wire Wound Common Mode Choke---SCW Series



Typical Impedance vs. Frequency Curves

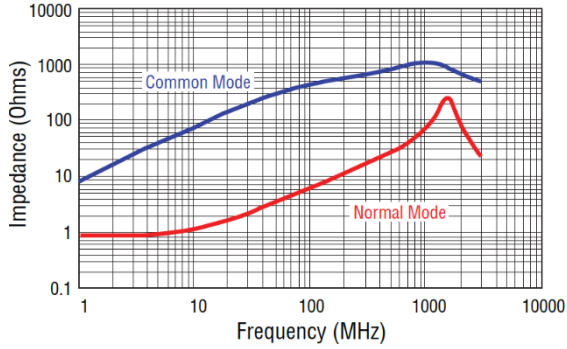


SMD Wire Wound Common Mode Choke---SCW Series

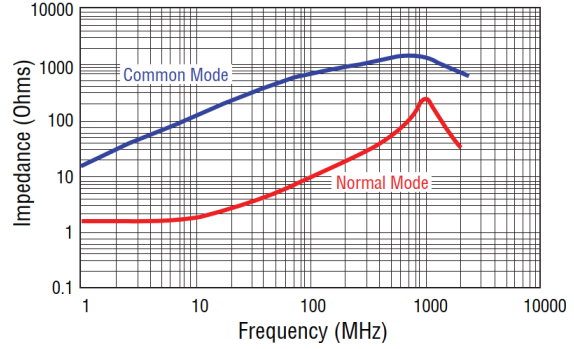


Typical Impedance vs. Frequency Curves

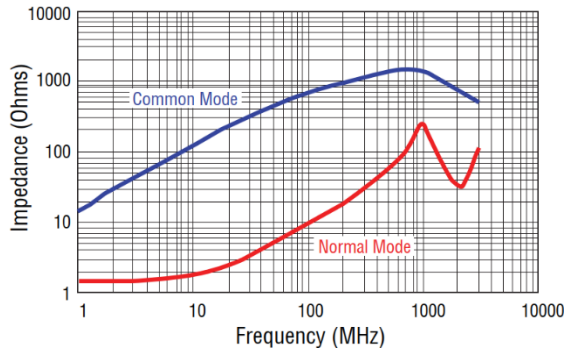
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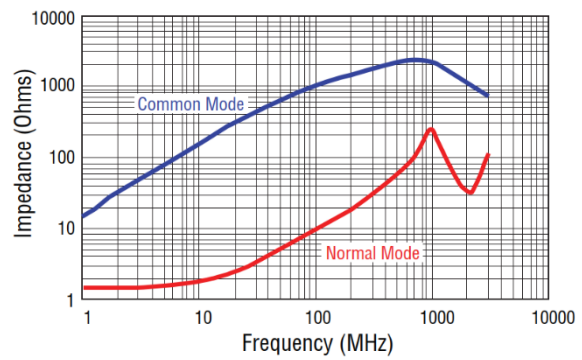
SCW2012-671Y



SCW2012-901Y



SCW2012-102Y



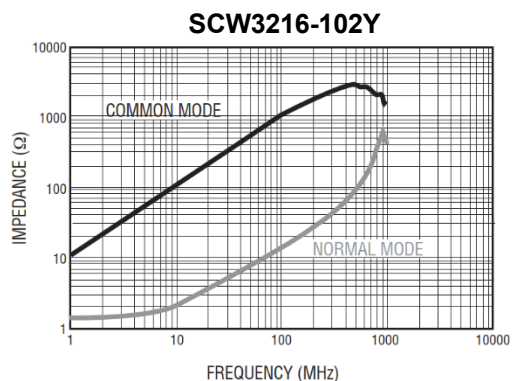
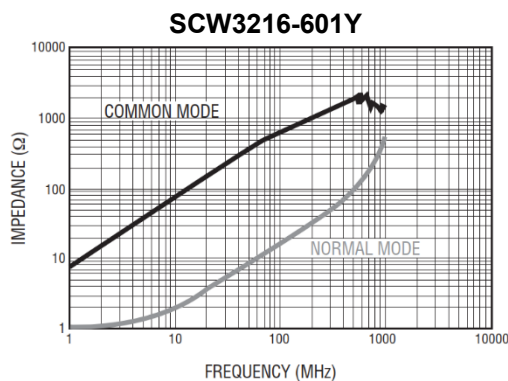
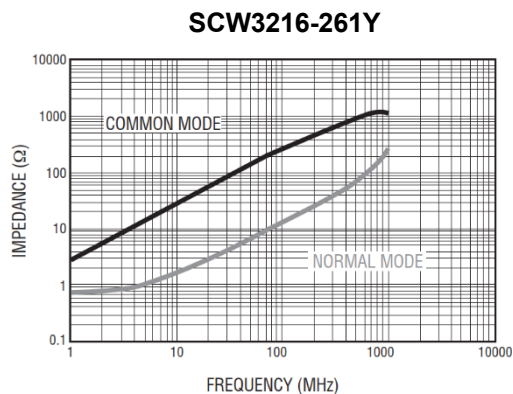
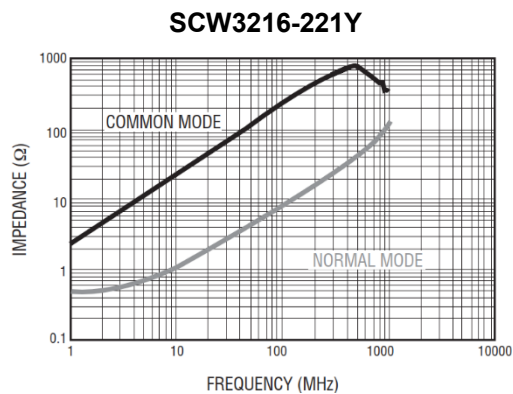
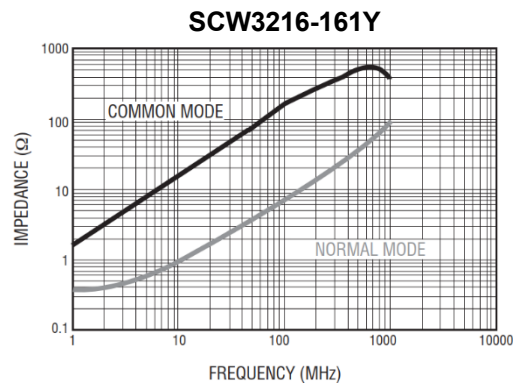
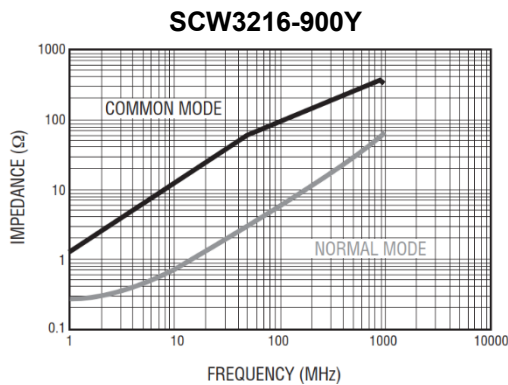
SMD Wire Wound Common Mode Choke---SCW Series



SCW3216 Electrical Characteristics

Part Number	Impedance @100MHz (Ω)	Tolerance (±%)	Rated Voltage (Vdc)	Withstanding Voltage (Vdc)	Insulation Resistance (MΩ) Min	DCR Max (Ω)	IDC Max (mA)
SCW3216-900Y	90	25	50	125	10	0.30	400
SCW3216-161Y	160	25	50	125	10	0.35	350
SCW3216-221Y	220	25	50	125	10	0.45	300
SCW3216-261Y	260	25	50	125	10	0.45	300
SCW3216-601Y	600	25	50	125	10	0.80	300
SCW3216-102Y	1000	25	50	125	10	1.00	230

Typical Impedance vs. Frequency Curves



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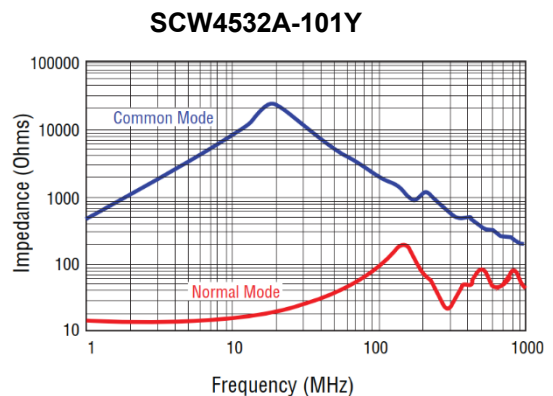
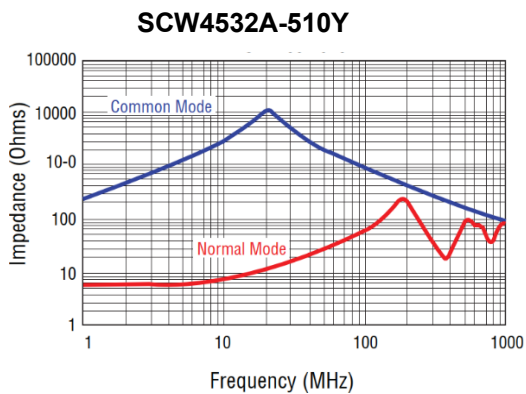
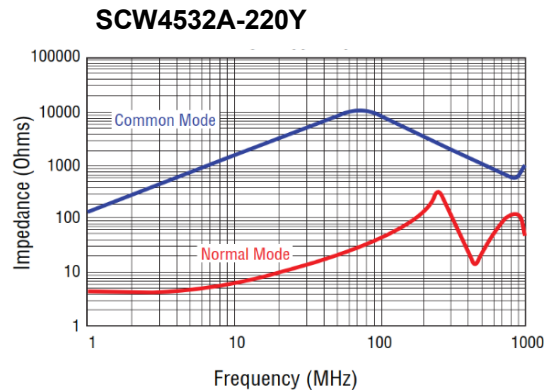
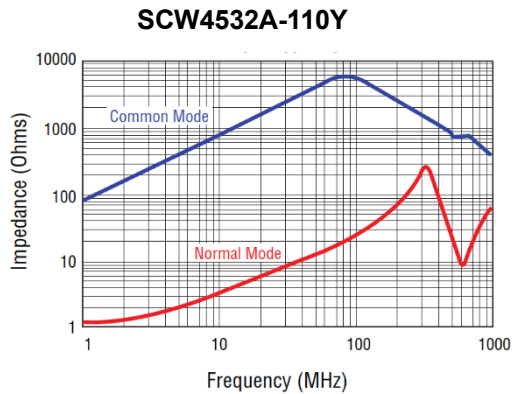
SCW4532 Electrical Characteristics

Part Number	Impedance @100MHz(Ω)	Tolerance ($\pm\%$)	Rated Voltage (Vdc)	Min Insulation Resistance (M Ω)	DCR Max (Ω)	IDC Max (mA)
SCW4532-331Y	330	25	50	10	0.11	1100
SCW4532-601Y	600	25	50	10	0.12	1000
SCW4532-801Y	800	25	50	10	0.16	900
SCW4532-102Y	1000	25	50	10	0.18	800
SCW4532-142Y	1400	25	50	10	0.20	700

SCW4532A Electrical Characteristics

Part Number	Inductance(μ H) @100KHz Common Mode	Tolerance ($\pm\%$)	Rated Voltage (Vdc)	Impedance@10MHz		DCR Max (Ω)	IDC Max (mA)
				Min.(Ω)	Typ.(Ω)		
SCW4532A-110Y	11	+50/-30	50	300	700	0.80	300
SCW4532A-220Y	22	+50/-30	50	500	1000	2.65	200
SCW4532A-510Y	51	+50/-30	50	1000	2000	3.50	200
SCW4532A-101Y	100	+50/-30	50	2000	5000	8.90	200

Typical Impedance vs. Frequency Curves



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