



SMD Common Mode Choke - HMCC Series

FEATURES

- * RoHS Compliant
- * Miniature SMD type common mode filter for fully automated assembly
- * Wide impedance range (30Ω ~ 2200Ω) for noise suppression
- * Excellent solderability



ORDERING CODE(标志示例)

HMCC □□□ - □□□ □
(1) (2) (3) (4)

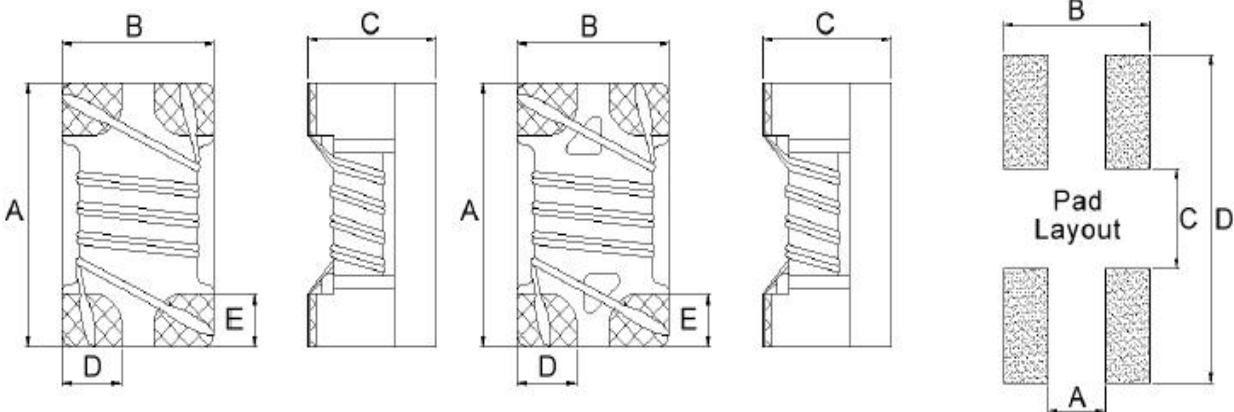
- (1) HMCC 向华料号 Part Number
- (2) 尺寸 Dimensions
- (3) 电感量 Inductance
- (4) 电感量公差 Inductance Tolerance

Shape and Dimensions

Recommended Pattern

HMCC10/11/31

HMCC21



Dimensions in mm

TYPE	A	B	C	D	E
HMCC10	1.60±0.2	0.80±0.2	1.10±0.2	0.25	0.33
HMCC11	1.25±0.2	1.00±0.2	0.80±0.1	0.32	0.33
HMCC21	2.05±0.2	1.25±0.2	1.20±0.2	0.50	0.40
HMCC31	3.20±0.2	1.60±0.2	1.90±0.2	0.50	0.60

TYPE	A	B	C	D
HMCC10	0.25	0.75	0.61	2.29
HMCC11	0.36	1.00	0.59	1.75
HMCC21	0.50	1.27	0.80	2.60
HMCC31	0.40	1.60	1.60	3.70



SMD Common Mode Choke - HMCC10 Series

HMCC10 series Electrical Characteristics

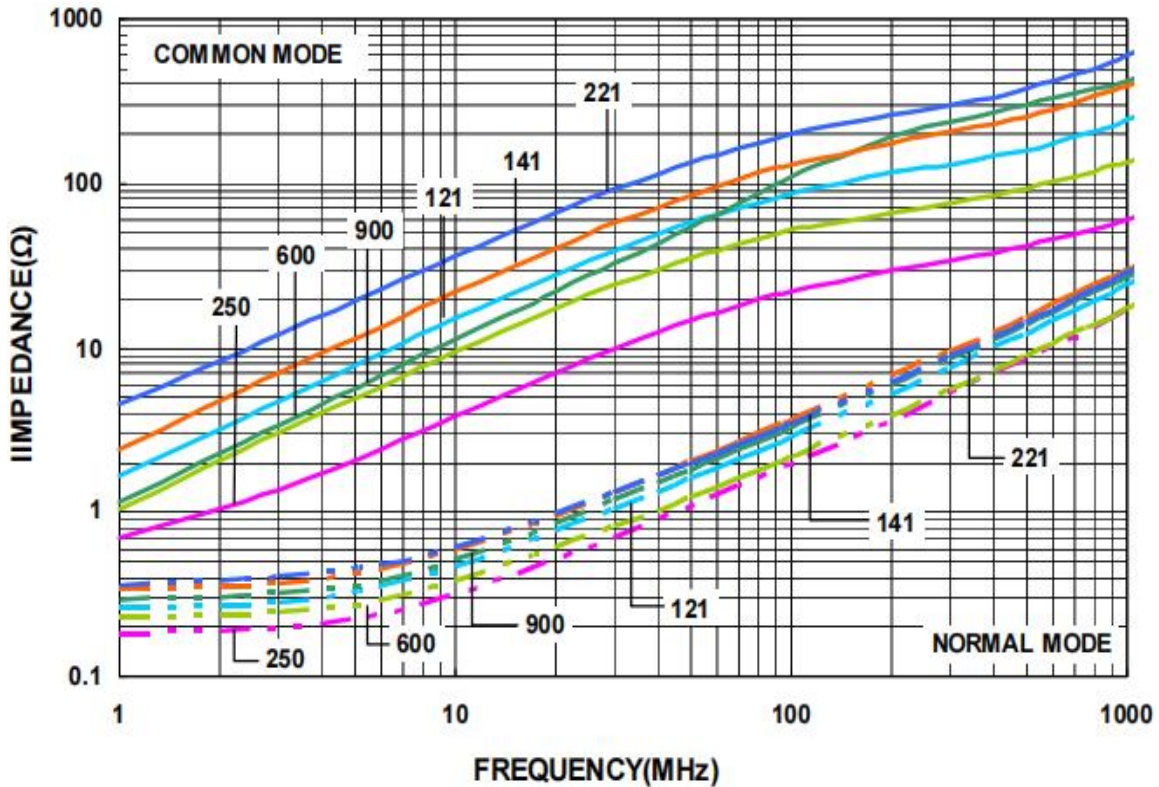
Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	I _{rms} (mA)Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M Ω)Min
HMCC10T-250M	25	20,25	100	0.077	500	50	125	10
HMCC10T-600M	60	20,25	100	0.109	500	50	125	10
HMCC10T-900M	90	20,25	100	0.142	500	50	125	10
HMCC10T-121M	120	20,25	100	0.160	500	50	125	10
HMCC10T-141M	140	20,25	100	0.174	500	50	125	10
HMCC10T-221M	220	20,25	100	0.209	500	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$, Y= $\pm 25\%$

- Operating temperature range $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (Including self - temperature rise)
- rms for 20°C rise from 25°C ambient

Test Instruments: Agilent E4991A Impedance / Material Analyzer

Typical Impedance vs. Frequency



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.



SMD Common Mode Choke - HMCC11 Series

HMCC11 series Electrical Characteristics

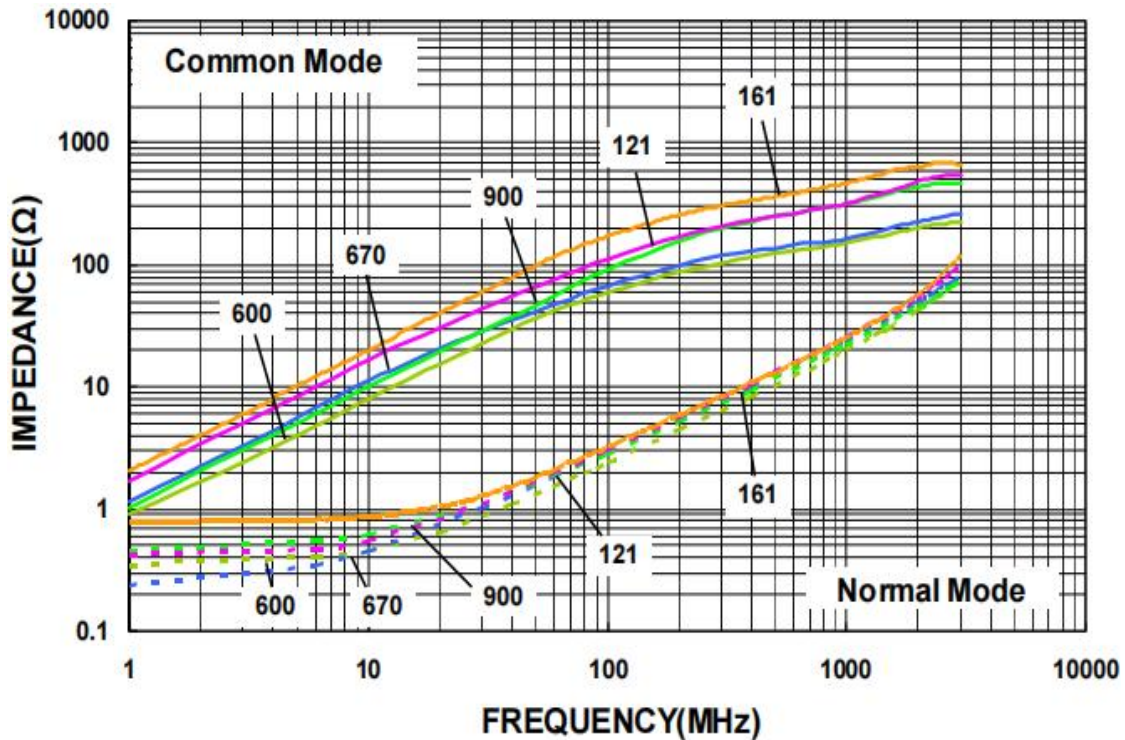
Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	IDC (mA)Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M Ω)Min
HMCC11T-250T	25	30	100	0.30	400	50	125	100
HMCC11T-600M	60	20	100	0.40	300	50	125	100
HMCC11T-670M	67	20	100	0.25	300	50	125	100
HMCC11T-900M	90	20	100	0.30	250	50	125	100
HMCC11T-121M	120	20	100	0.40	200	50	125	100
HMCC11T-161M	160	20	100	0.43	160	50	125	100
HMCC11T-201M	200	20	100	0.80	120	50	125	100
HMCC11T-331Y	330	25	100	1.30	100	50	125	100

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$, Y= $\pm 25\%$, T= $\pm 30\%$

- Operating temperature range $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current

Test Instruments: Agilent E4991A Impedance / Material Analyzer

Typical Impedance vs. Frequency



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SMD Common Mode Choke - HMCC21 Series

HMCC21 series Electrical Characteristics

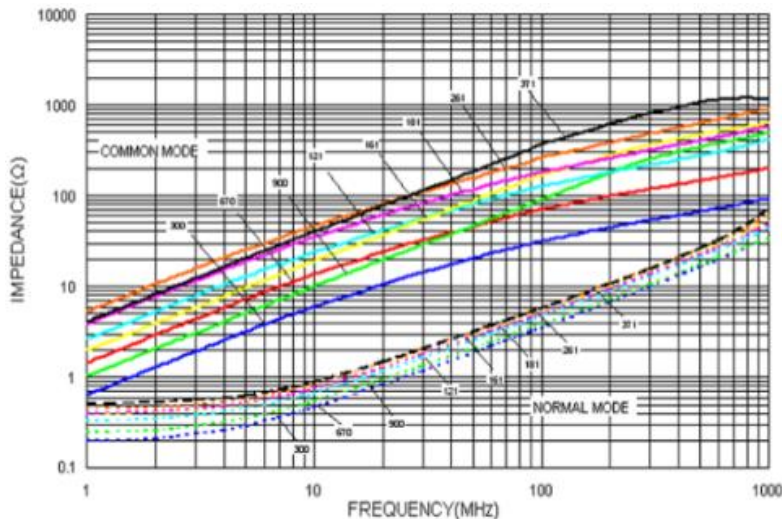
Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	IDC (mA)Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M Ω)Min
HMCC21T-300M	30	20	100	0.20	450	50	125	10
HMCC21T-670M	67	20	100	0.25	400	50	125	10
HMCC21T-750M	75	20	100	0.30	360	50	125	10
HMCC21T-900M	90	20	100	0.35	330	50	125	10
HMCC21T-121M	120	20	100	0.30	400	50	125	10
HMCC21T-161M	160	20	100	0.35	350	50	125	10
HMCC21T-181M	180	20	100	0.35	330	50	125	10
HMCC21T-201M	200	20	100	0.35	330	50	125	10
HMCC21T-221M	220	20	100	0.35	310	50	125	10
HMCC21T-261M	260	20	100	0.40	300	50	125	10
HMCC21T-301M	300	20	100	0.40	290	50	125	10
HMCC21T-361M	360	20	100	0.45	280	50	125	10
HMCC21T-371M	370	20	100	0.45	280	50	125	10
HMCC21T-501M	500	20	100	0.55	170	50	125	10
HMCC21T-671M	670	20	100	0.60	140	50	125	10
HMCC21T-901M	900	20	100	0.60	80	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M=±20%

- Operating temperature range -40°C ~ 105°C (Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current

Test Instruments: Agilent E4991A Impedance / Material Analyzer

Typical Impedance vs. Frequency



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SMD Common Mode Choke - HMCC31 Series

HMCC31 series Electrical Characteristics

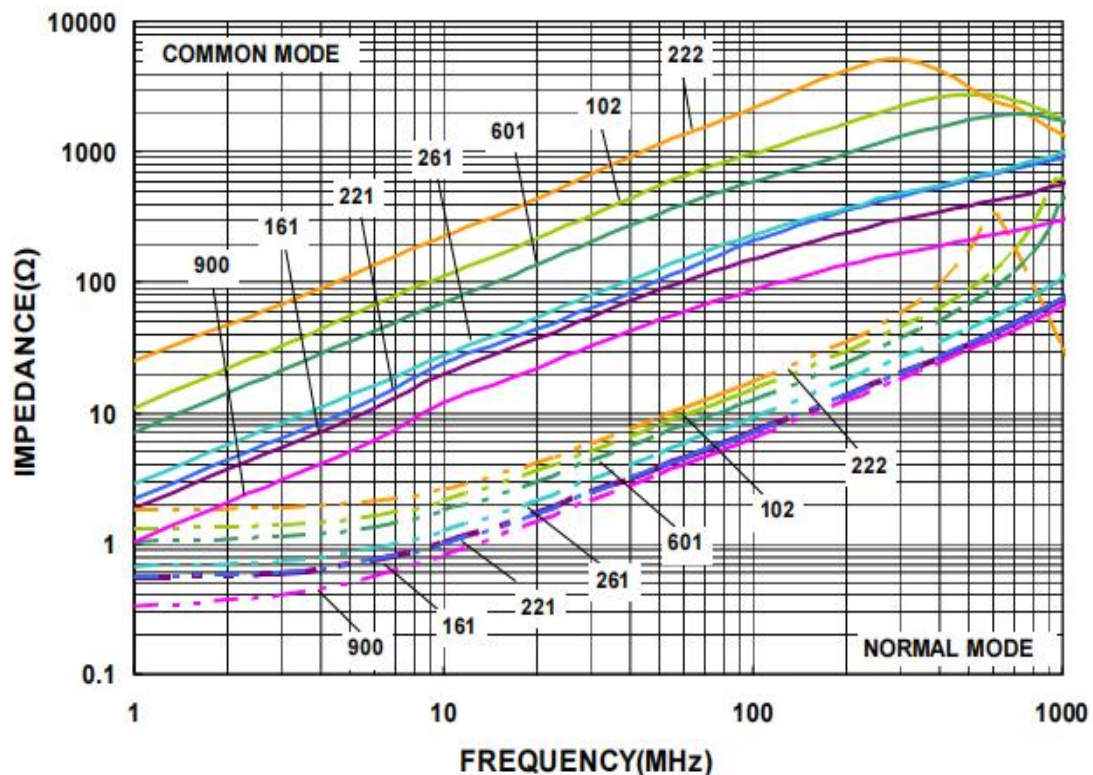
Part No.	Impedance (Ω)	Tolerance ($\pm\%$)	Test Freq. (MHz)	RDC (Ω)Max	IDC (mA)Max	Rated Voltage (Vdc)	Withstand Voltage (Vdc)	Insulation Resistance (M Ω)Min
HMCC31T-900M	90	20	100	0.30	370	50	125	10
HMCC31T-121M	120	20	100	0.30	370	50	125	10
HMCC31T-161M	160	20	100	0.40	340	50	125	10
HMCC31T-221M	220	20	100	0.40	320	50	125	10
HMCC31T-261M	260	20	100	0.50	310	50	125	10
HMCC31T-601M	600	20	100	0.80	260	50	125	10
HMCC31T-102M	1000	20	100	1.00	230	50	125	10
HMCC31T-222M	2200	20	100	1.20	200	50	125	10

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$

- Operating temperature range $-40^{\circ}\text{C} \sim 105^{\circ}\text{C}$ (Including self - temperature rise)
- IDC for Inductance drop 10% from its value without current

Test Instruments: Agilent E4991A Impedance / Material Analyzer

Typical Impedance vs. Frequency



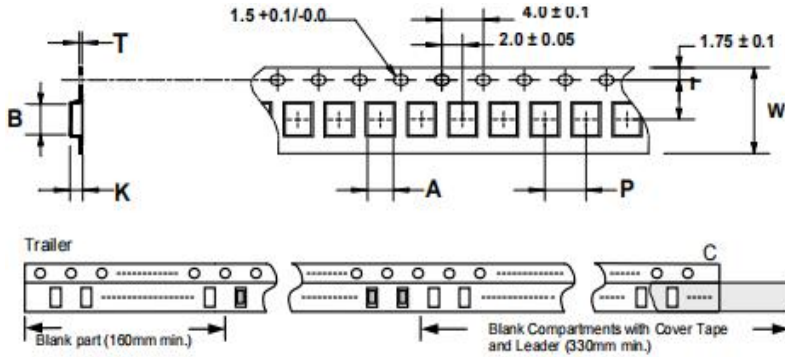
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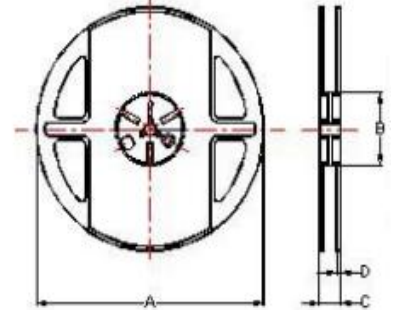
SMD Common Mode Choke - HMCC Series

Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS/REEL
	A	B	T	W	P	F	K	A	B	C	D	
HMCC10	0.95	1.70	0.24	8.0	4.0	3.5	1.15	178	60	12	1.5	2000
HMCC11	1.15	1.45	0.24	8.0	4.0	3.5	1.00	178	60	12	1.5	2000
HMCC21	1.50	2.25	0.24	8.0	4.0	3.5	1.35	178	60	12	1.5	2000
HMCC31	1.76	3.47	0.22	8.0	4.0	3.5	2.05	178	60	12	1.5	2000