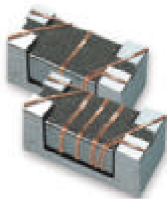


SMD Common Mode Choke-CM Series

CM Series For USB 3.0,



Based on Company technical expertise, we have introduced a full series of common mode choke. They are designed for excellent noise attenuation with a compact size for wide applications such as USB line for personal computers and peripheral, IEEE 1394 line for personal computers, DVC, STB and LVDS, panel line for liquid display panels, etc. We welcome you to contact us for requirement of our standard series or custom design service.

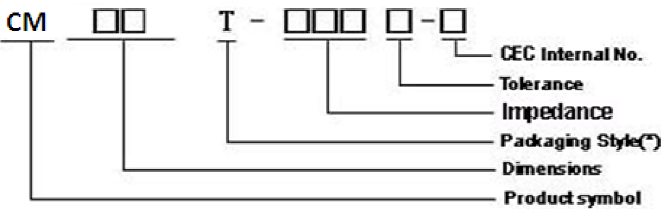
Features

- Miniature SMD type common mode filter for fully automated assembly.
- Excellent Solderability.
- Operating temperature from -25°C to 85°C.

Applications

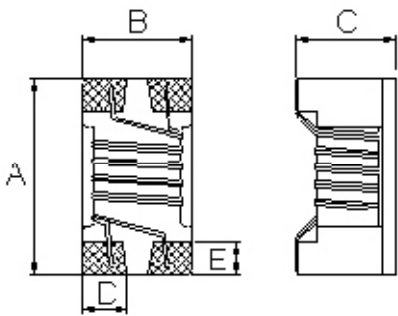
- Packaging: T : Tape and Reel
- When ordering, please specify tolerance and packaging codes.
- Note: lead-free

Product Identification



Shapes and Dimensions

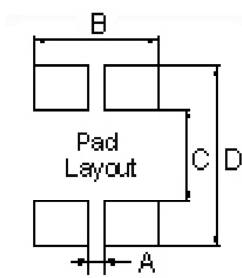
CM11



Dimensions in mm

TYPE	A	B	C	D	E
CM11	1.25±0.2	1.00±0.2	0.90±0.2	0.32	0.33

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
CM11	0.36	1.00	0.59	1.75

SMD Common Mode Choke FOR USB3.0-CM Series

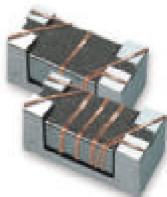
Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CM11T-600M-N	60	100	20	300	20	0.40	10
CM11T-670M-N	67	100	20	300	50	0.25	10
CM11T-900M-N	90	100	20	250	50	0.30	10
CM11T-121M-N	120	100	20	200	50	0.40	10
CM11T-161M-N	160	100	20	160	50	0.43	10

- When ordering, please specify tolerance and packaging codes. Ex:CM11T- 600M -N
- Tolerance : M = ±20%
- Packaging : Clear tape and reel { standard }.
- Z : Agilent/HP4287A+Agilent16197A
- Rdc(single line) :Chroma16502
- Insulation Resistance : Agilent/HP4339B
- Operating temperature range from -25°C to 85°C.

SMD Common Mode Choke-CM Series

CM Series For USB 2.0, IEEE1394b, LVDS Applications



Based on Company technical expertise, we have introduced a full series of common mode choke. They are designed for excellent noise attenuation with a compact size for wide applications such as USB line for personal computers and peripheral, IEEE 1394 line for personal computers, DVC, STB and LVDS, panel line for liquid display panels, etc. We welcome you to contact us for requirement of our standard series or custom design service.

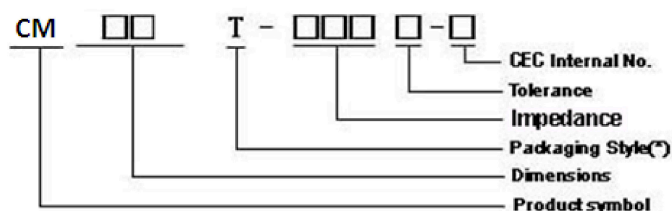
Features

- Miniature SMD type common mode filter for fully automated assembly.
- Wide Impedance range (300 ~ 22000) for noise suppression.
- Excellent Solderability.
- Operating temperature from -25°C to 85°C.

Applications

- USB line for personal computers and peripheral,
- IEEE 1394 line for personal computers, DVC, STB.
- LVDS, panel line for liquid display panels, graph card etc.

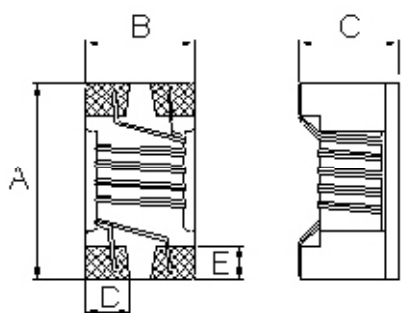
Product Identification



- Packaging: T : Tape and Reel
- When ordering, please specify tolerance and packaging codes.
- Note: lead-free

Shapes and Dimensions

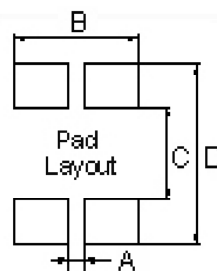
CM21/CM31



Dimensions in mm

TYPE	A	B	C	D	E
CM21	2.05±0.2	1.25±0.2	1.20±0.2	0.50	0.58
CM31	3.20±0.2	1.60±0.2	1.90±0.2	0.60	0.60

Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
CM21	0.50	1.20	0.80	2.60
CM31	0.40	1.60	1.60	3.70

SMD Common Mode Choke -CM21/CM31 Series

Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CM21T-300M-N	30	100	20	450	120	0.20	10
CM21T-670M-N	67	100	20	400	120	0.25	10
CM21T-900M-N	90	100	20	330	120	0.35	10
CM21T-121M-N	120	100	20	370	120	0.30	10
CM21T-161M-N	160	100	20	350	120	0.35	10
CM21T-181M-N	180	100	20	330	120	0.35	10
CM21T-201M-N	200	100	20	330	120	0.35	10
CM21T-221M-N	220	100	20	310	120	0.35	10
CM21T-261M-N	260	100	20	300	120	0.40	10
CM21T-301M-N	300	100	20	290	120	0.40	10
CM21T-361M-N	360	100	20	280	120	0.45	10
CM21T-371M-N	370	100	20	280	120	0.45	10
CM21T-501M-N	500	100	20	170	120	0.55	10
CM21T-671M-N	670	100	20	140	120	0.60	10
CM21T-901M-N	900	100	20	80	120	0.60	10

Electrical Characteristics

Part Number	Impedance (Ω)	Test Frequency (MHz)	Tolerance (±%)	Idc (mA) Max	Rated Voltage (Vdc)	Rdc (Ω) Max	Insulation Resistance (MΩ) Min
CM31T-900M-N	90	100	20	370	50	0.3	10
CM31T-161M-N	160	100	20	340	50	0.4	10
CM31T-221M-N	220	100	20	320	50	0.4	10
CM31T-261M-N	260	100	20	310	50	0.5	10
CM31T-601M-N	600	100	20	260	50	0.8	10
CM31T-102M-N	1000	100	20	230	50	1.0	10
CM31T-222M-N	2200	100	20	200	50	1.2	10

- When ordering, please specify tolerance and packaging codes.
- Tolerance : M = ±20%
- Packaging : Clear tape and reel { standard }.
- Z : Agilent/HP4291A
- Rdc(single line) : CH502BC/ HP4338B
- Insulation Resistance : Agilent /HP4339B
- Operating temperature range from -25℃ to 85℃.