

SMD COMMON MODE LINE FILTER

CM02 SERIES

FEATURES:

- Ferrite Core bobbin construction
- High frequency and Large current
- Excellent Mechanical Strength
- Excellent Solderability
- Excellent Frequency performance
- Low Profile and Low cost

COMMON APPLICATIONS:

- Video Cameras
- Communication System
- Automotive Systems
- Liquid Crystal Televisions
- Hard Disk Drives
- Network Systems
- Computer Peripheral Equipment

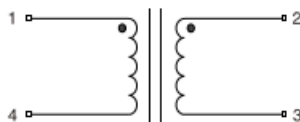
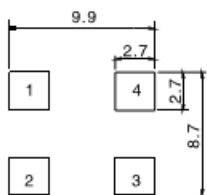
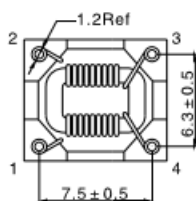
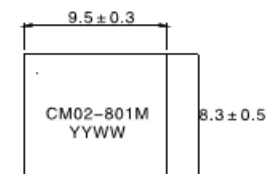


ELECTRICAL CHARACTERISTICS@25°C

Part Number	Inductance (uH) Typ.	Impedance (Ω) $\pm 25\%$ @100MHz	Rated current (A)	DCR (m Ω)Max
CM02-501M	5.0	500	5.0	5.5
CM02-801M	9.0	800	3.5	13.2
CM02-102M	11.0	1000	2.5	30.0

TECHNICAL INFORMATION & PHYSICAL CHARACTERISTICS

Dimensions(mm)



Note:

- Inductance Testing: 1KHz 1V HP4284A
- Z test with HP4191A or HP4395A
- RDC: QuadTech 1880 Milliohm meter
- Operating temperature: -40°C to +105°C
- Storage Temperature: -40°C to +105°C
- Resistance to soldering heat: 260°C for 10 seconds
- Marking: Part number and date code

Note: All specifications subject to change without notice.



COMMON MODE CHOKES FOR LINE FILTER

CM4001 SERIES

FEATURES:

- Current rating up to 1.4A
- Inductance range: 120 to 5000uH
- Frequency range to 200 MHz
- RoHS compliant

OPTIONS:

- Packaging: Tape & Reel is standard
- Bulk packaging available for smaller quantities

COMMON APPLICATIONS:

- EMI suppression
- DC-DC Converter
- Input/Output line filter
- RFI noise suppression

ELECTRICAL CHARACTERISTICS:

Part Number	L(0A) $\mu H \pm 40\%$	Lk $\mu H(\text{Max})$	DCR(Ω) each winding	Impedance(Z)		Rated voltage (Vdc)	Rated current (A)
				Freq. range (MHz)	Min Value (Ω)		
CM4001-121Y	120	1.45	0.025	10-200	200	50	1.40
CM4001-251Y	250	3.2	0.035	5-100	400	50	1.19
CM4001-501Y	500	5.6	0.070	2-50	800	50	0.84
CM4001-102Y	1000	12	0.180	1-40	1400	50	0.52
CM4001-202Y	2000	0.23	0.270	0.5-15	2000	50	0.40
CM4001-302Y	3000	0.26	0.330	0.5-10	3000	50	0.35
CM4001-402Y	4000	0.27	0.550	0.5-5	4000	50	0.30
CM4001-472Y	4700	0.28	1.000	0.6-3	6200	50	0.25
CM4001-502Y	5000	0.29	0.620	0.5-3	5000	50	0.25

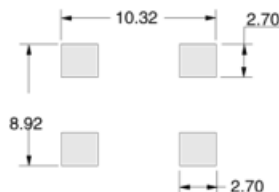
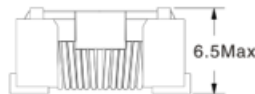
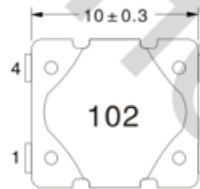
SCHEMATIC



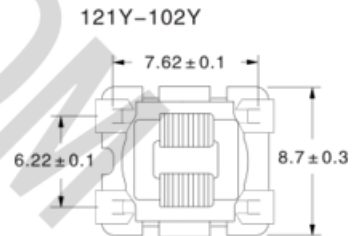
NOTES:

1. Temperature Rise: 45°C at rated current
2. Hi-Pot: 1000 Vrms, 60Hz, 3mA, 1min
@ 120-1000uH
300 Vrms, 60Hz, 3mA, 1min
@ 2000-5000uH
3. Operating Temperature:
-40°C to +105°C (Temperature rise included)
4. Storage Temperature:
-40°C to +105°C
Solderability: 245°C for 5 sec
5. Core Material Ferrite
6. Base Phenolic
7. Wire Enamelled copper
8. Terminal coating Sn
9. Packaging 800 pcs. per 13-inch reel

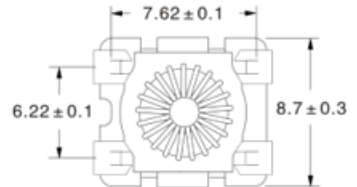
PHYSICAL CHARACTERISTICS(Dimensions:mm)



Recommended Layout



202Y-502Y



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