



SMD Common Mode Choke for Power Line ~ SMM0905 SERIES



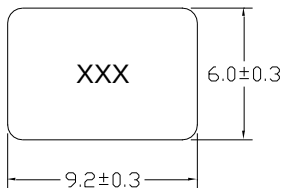
PART NUMBERING SYSTEM

SMM	0905	—	1 0 2	—	LF
TYPE	DIMENSIONS		IMPEDANCE		LEAD FREE

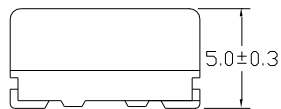
SHAPES , DIMENSIONS AND PCB LAYOUT

UNIT : mm

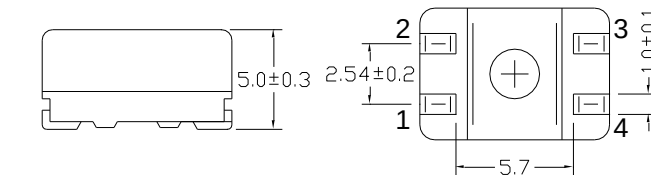
TOP VIEW



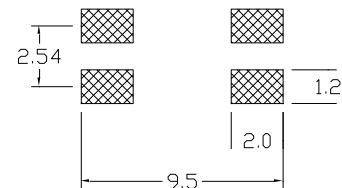
FRONT VIEW



BOTTOM VIEW



PCB PATTERN



FEATURES

- Designed for low profile effective in space conscious applications .
- Ideal for low resistance filters have been designed for excellent electrical isolation .
- Application for provide common mode noise attenuation and for the suppression of EMI in data lines and signal lines .
- Lead free, RoHS and REACH compliant and Halogen Free
- Automotive grade available

APPLICATIONS

- Preventive measure against common mode noise radiation emissions from power line or else.
- High current circuit
- Car wireless charger
- Industrial applications
- Power device



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SPECIFICATION TABLE

PART NUMBER	Impedance (Z) ohm (Typ.)	DCR(Ω) (Max.) N1=N2	Rated Current Max. (A)	Inductance (uH)	Leakage Inductance(nH) Typ.	Marking
SMM0905-921-LF	920	0.8	1.60	10±30%	55	100
SMM0905S-921-LF	920	0.8	1.60	10±30%	850	100S
SMM0905-182-LF	1800	0.13	1.20	250±50%	60	251
SMM0905-282-LF	2800	0.12	1.00	25±30%	60	250
SMM0905S-282-LF	2800	0.12	1.00	25±30%	1500	250S
SMM0905-312-LF	3100	0.25	0.90	40±30%	80	400
SMM0905S-312-LF	3100	0.25	0.90	40±30%	2250	400S
SMM0905-332-LF	3300	0.15	1.00	500±50%	75	501
SMM0905-552-LF	5500	0.16	1.00	51±30%	85	510
SMM0905S-552-LF	5500	0.16	1.00	51±30%	3150	510S
SMM0905-602-LF	6000	0.31	0.80	1000±50%	90	102
SMM0905-922-LF	9200	0.42	0.60	2000±50%	130	202
SMM0905-183-LF	18400	0.95	0.40	6500±50%	280	652
SMM0905-203-LF	20000	0.75	0.50	4700±50%	180	472
SMM0905-253-LF	25000	1.2	0.35	10000±50%	320	103
SMM0905-503-LF	50000	2.6	0.20	20000±50%	490	203

- Electrical specifications at 25℃.
- Testing Frequency: 1KHz, 0.1V (≤51uH), 100KHz, 5mV (250uH~4.7mH), 10KHz, 50mV (≥6.5mH)
- Leakage inductance: 1MHz, 1mA
- Insulation test voltage: 500Vac Max
- Rated voltage : 80V
- Hi-Pot test : 500Vac 60Hz 3mA at 3 sec .
- Test equipment : Inductance value : HP4284A LCR meter ; Impedance value : HP4194A LCR Meter .
- Rated current : 40℃ temperature rise from 25℃ ambient.
- Operating temperature range -40℃ to + 125℃.
- Packing : 13" reel, machine-ready ,embossed plastic tape (1,000 parts per full reel).