

MI Series

SMD Multilayer Inductor

Size 0805



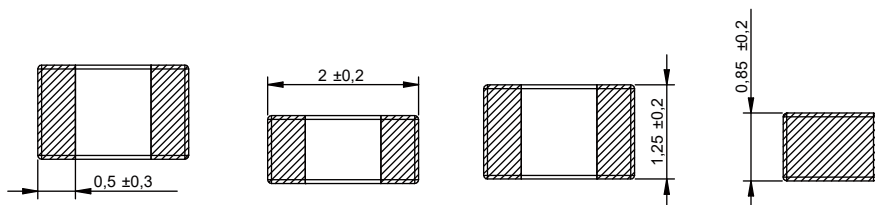
CHARACTERISTICS

- Monolithic structure with multilayer
- Wide inductance range
- Small size and low profile available
- Quantity: 4000pcs

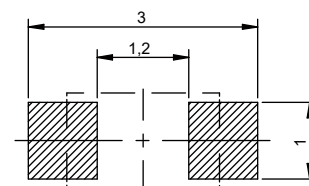
APPLICATION

- Noise suppression
- Filters

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

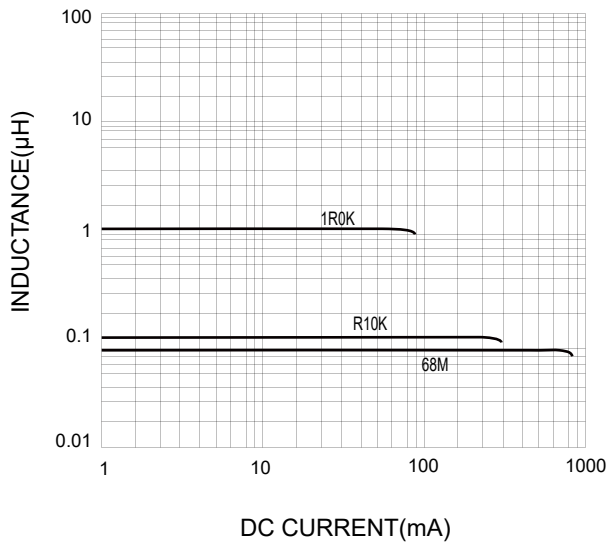
Part No	Inductance (μ H)	Tolerance	Q Min.	Test Frequency (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Temperature Rise Current Max. (mA)
MI0805-47M	0.047	$\pm 20\%$	15	50	320	0.2	300
MI0805-68M	0.068	$\pm 20\%$	15	50	280	0.2	300
MI0805-82M	0.082	$\pm 20\%$	15	50	255	0.2	300
MI0805-R10K	0.10	$\pm 10\%$	20	25	235	0.3	250
MI0805-R12K	0.12	$\pm 10\%$	20	25	220	0.3	250
MI0805-R15K	0.15	$\pm 10\%$	20	25	200	0.4	250
MI0805-R18K	0.18	$\pm 10\%$	20	25	185	0.4	250
MI0805-R22K	0.22	$\pm 10\%$	20	25	170	0.5	250
MI0805-R27K	0.27	$\pm 10\%$	20	25	150	0.5	250
MI0805-R33K	0.33	$\pm 10\%$	20	25	145	0.55	250
MI0805-R39K	0.39	$\pm 10\%$	25	25	135	0.65	200
MI0805-R47K	0.47	$\pm 10\%$	25	25	125	0.65	200
MI0805-R56K	0.56	$\pm 10\%$	25	25	115	0.75	150
MI0805-R68K	0.68	$\pm 10\%$	25	25	105	0.8	150
MI0805-R82K	0.82	$\pm 10\%$	25	25	100	1.0	150
MI0805-1R0K	1.0	$\pm 10\%$	45	10	75	0.4	50

Part No	Inductance (μ H)	Tolerance	Q Min.	Test Frequency (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Temperature Rise Current Max. (mA)
MI0805-1R2K	1.2	$\pm 10\%$	45	10	65	0.5	50
MI0805-1R5K	1.5	$\pm 10\%$	45	10	60	0.5	50
MI0805-1R8K	1.8	$\pm 10\%$	45	10	55	0.6	50
MI0805-2R2K	2.2	$\pm 10\%$	45	10	50	0.65	30

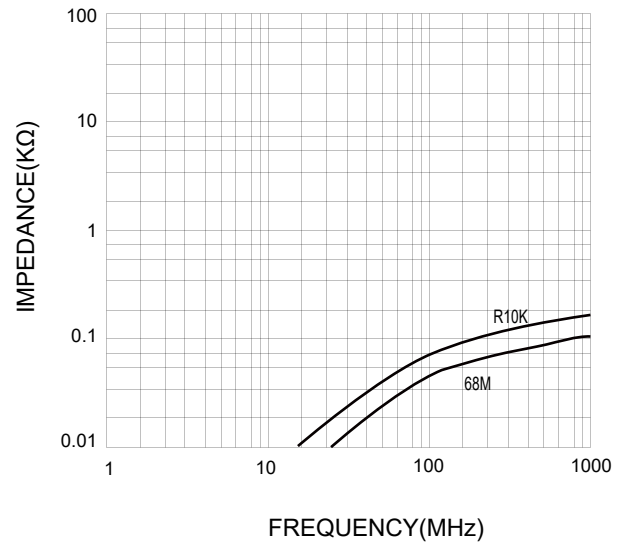
Operating Temperature: $-55^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Typical Electrical Characteristics:

Inductance VS. DC Current Characteristics:



Impedance VS. Frequency Characteristics:



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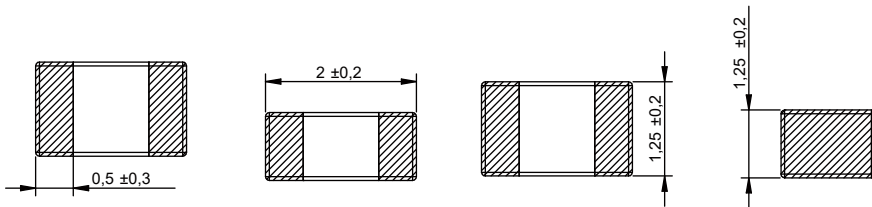
CHARACTERISTICS

- Monolithic structure with multilayer
- Wide inductance range
- Small size and low profile available
- Quantity: 3000pcs

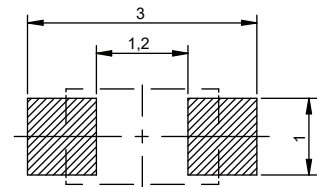
APPLICATION

- Noise suppression
- Filters

Dimensions: [mm]



Land Pattern: [mm]



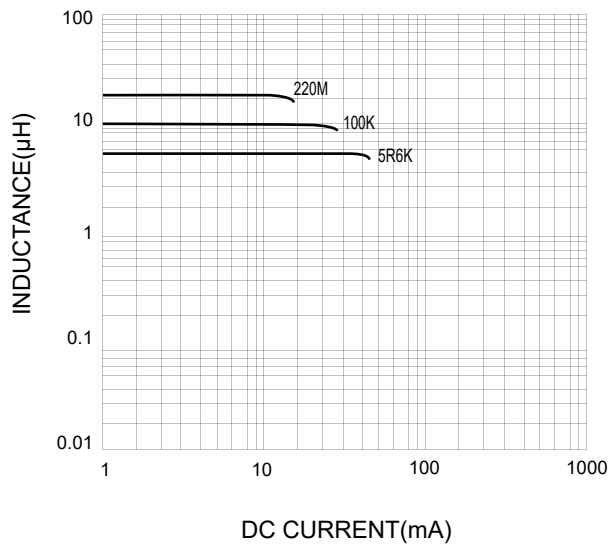
Electrical Properties:

Part No	Inductance (μH)	Tolerance	Q Min.	Test Frequency (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	Temperature Rise Current Max. (mA)
MI0805-2R7K	2.7	±10%	45	10	45	0.75	30
MI0805-3R3K	3.3	±10%	45	10	41	0.8	30
MI0805-3R9K	3.9	±10%	45	10	38	0.9	30
MI0805-4R7K	4.7	±10%	45	10	35	1.0	30
MI0805-5R6K	5.6	±10%	50	4	32	0.9	15
MI0805-6R8K	6.8	±10%	50	4	29	1.0	15
MI0805-8R2K	8.2	±10%	50	4	26	1.1	15
MI0805-100K	10	±10%	50	2	24	1.15	15
MI0805-120K	12	±10%	50	2	22	1.25	15
MI0805-150K	15	±10%	30	1	19	0.8	5.0
MI0805-180K	18	±10%	30	1	18	0.9	5.0
MI0805-220M	22	±20%	30	1	16	1.1	5.0
MI0805-270M	27	±20%	30	1	14	1.15	5.0
MI0805-330M	33	±20%	30	1	13	1.25	5.0

Operating Temperature: -55 °C ~ +125 °C

Typical Electrical Characteristics:

Inductance VS. DC Current Characteristics:



Impedance VS. Frequency Characteristics:

