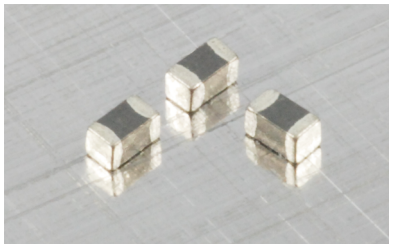
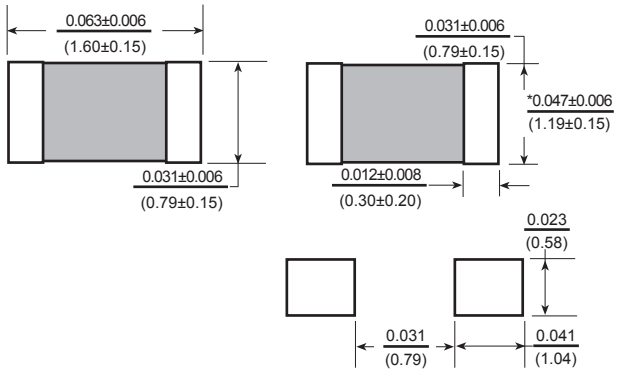
RoHS

Multilayer Chip Inductors MLC05



Dimensions: Inches / (mm)



Allied Part Number	Inductance (µh)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC Max. (mA)
MLC05-R01M-RC	.01	20	15	50	300	0.20	50
MLC05-R033M-RC	.033	20	15	50	270	0.20	50
MLC05-R047M-RC	.047	20	15	50	260	0.30	50
MLC05-R056M-RC	.056	20	15	50	255	0.30	50
MLC05-R068M-RC	.068	20	15	50	250	0.30	50
MLC05-R082M-RC	.082	20	15	50	245	0.30	50
MLC05-R10M-RC	.10	20	25	25	240	0.50	50
MLC05-R12M-RC	.12	20	25	25	205	0.50	50
MLC05-R15M-RC	.15	20	25	25	180	0.60	50
MLC05-R18M-RC	.18	20	25	25	165	0.60	50
MLC05-R22M-RC	.22	20	25	25	150	0.80	50
MLC05-R27M-RC	.27	20	25	25	136	0.80	50
MLC05-R33M-RC	.33	20	25	25	125	0.85	35
MLC05-R39M-RC	.39	20	25	25	110	1.00	35
MLC05-R47M-RC	.47	20	25	25	105	1.35	35
MLC05-R56M-RC	.56	20	25	25	95	1.50	35
MLC05-R68M-RC	.68	20	25	25	85	1.70	35
MLC05-R82M-RC	.82	20	25	25	75	2.10	35
MLC05-1R0K-RC	1.0	10	35	10	65	0.60	25
MLC05-1R2K-RC	1.2	10	35	10	60	0.80	25
MLC05-1R5K-RC	1.5	10	35	10	55	0.80	25
MLC05-1R8K-RC	1.8	10	35	10	50	0.95	25
MLC05-2R2K-RC	2.2	10	35	10	45	1.10	15
MLC05-2R7K-RC	2.7	10	35	10	40	1.30	15
MLC05-3R3K-RC	3.3	10	35	10	38	1.50	15
MLC05-3R9K-RC	3.9	10	35	10	36	1.70	15
MLC05-4R7K-RC	4.7	10	35	10	33	2.10	15
MLC05-5R6K-RC	5.6	10	35	4	22	1.55	5
MLC05-6R8K-RC	6.8	10	35	4	20	1.70	5
MLC05-8R2K-RC	8.2	10	30	4	18	2.10	5
MLC05-100K-RC	10	10	30	2	17	2.55	5
MLC05-120K-RC	12	10	30	2	15	2.60	3
MLC05-150K-RC	15	10	20	1	14	1.70	1
MLC05-180K-RC	18	10	20	1	13	1.80	1
MLC05-220K-RC	22	10	20	1	11	2.10	1
MLC05-270K-RC	27	10	20	1	10	2.70	1
MLC05-300K-RC	33	10	20	1	9	2.90	1

Available in tighter tolerances.
All specifications subject to change without notice.

Electrical

Q vs. Frequency Characteristics: Measured on Impedance Analyzer HPA4195A.

Inductance vs. Temperature Characteristics: Measured on LCR Meter HP4285A.

Impedance vs. Frequency Characteristics: Measured on Impedance Analyzer HPA4195A.

Inductance Vs. DC Current Characteristics: Measured on LCR Meter HPA4285A.

Tolerance: For 20% use M, 10% use K and 5% use J as part number suffix.

Mechanical

Solderability: 90% terminal coverage. Preheat: 120 ± 20°C for 60 sec. Solder: H63A. Solder Temp.: 230 ± 5°C. Flux: rosin. Dip time: 4 ± 1 sec.

Environmental

Thermal Shock: Inductance shall be within ±5% of initial value. Q shall be within ± 30% of initial value within temp. range of -40°C to + 85°C for 30 min. each for > 100 cycles.

Humidity Resistance: Same results as above. Temp. 4°C. Humidity: 95% RH. Time: 1000 hrs.

High Temp Resistance: Same results as above. Temp: 85°C. Time: 1000 hrs.

Low Temp Resistance: Same results as above. Temp: -45°C. Time: 1000 hrs.

Operating Temp.: -25°C to +85°C.

Storage Temp.: -40°C to +85°C.

Physical

Packaging: 4000 pieces per 7 inch reel.