

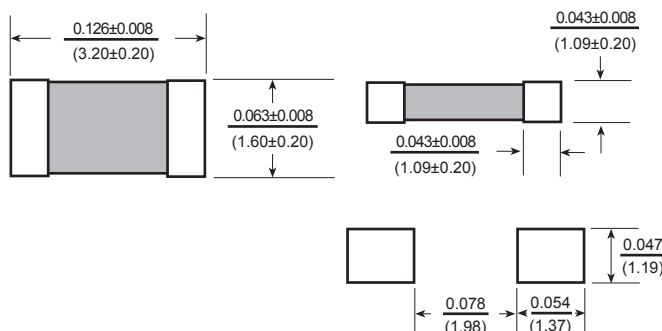


# Multilayer Chip Inductors

# MLC20



Dimensions: Inches (mm)



Allied Part Number	Inductance (µh)	Tolerance (%)	Q Min.	Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. (Ω)	IDC Max. (mA)
MLC20-R047M-RC	.047	20	20	50	320	0.15	300
MLC20-R056M-RC	.056	20	20	50	280	0.25	300
MLC20-R068M-RC	.068	20	20	50	280	0.25	300
MLC20-R082M-RC	.082	20	20	50	250	0.25	300
MLC20-R10M-RC	.10	20	25	25	235	0.25	250
MLC20-R12M-RC	.12	20	25	25	220	0.30	250
MLC20-R15M-RC	.15	20	25	25	200	0.30	250
MLC20-R18M-RC	.18	20	25	25	185	0.40	250
MLC20-R22M-RC	.22	20	25	25	170	0.40	250
MLC20-R27M-RC	.27	20	25	25	150	0.50	250
MLC20-R33M-RC	.33	20	25	25	145	0.60	250
MLC20-R39M-RC	.39	20	25	25	135	0.50	200
MLC20-R47M-RC	.47	20	25	25	125	0.60	200
MLC20-R56M-RC	.56	20	25	25	115	0.70	150
MLC20-R68M-RC	.68	20	25	25	105	0.80	150
MLC20-R82M-RC	.82	20	25	25	100	0.90	100
MLC20-1R0K-RC	1.0	10	45	10	75	0.40	100
MLC20-1R2K-RC	1.2	10	45	10	65	0.50	100
MLC20-1R5K-RC	1.5	10	45	10	60	0.50	80
MLC20-1R8K-RC	1.8	10	45	10	55	0.50	70
MLC20-2R2K-RC	2.2	10	45	10	50	0.60	60
MLC20-2R7K-RC	2.7	10	45	10	45	0.60	60
MLC20-3R3K-RC	3.3	10	45	10	41	0.70	60
MLC20-3R9K-RC	3.9	10	45	10	38	0.80	50
MLC20-4R7K-RC	4.7	10	45	10	35	0.90	50
MLC20-5R6K-RC	5.6	10	45	4	32	0.70	25
MLC20-6R8K-RC	6.8	10	45	4	29	0.80	25
MLC20-8R2K-RC	8.2	10	45	4	26	0.90	25
MLC20-100K-RC	10	10	45	2	24	1.00	25
MLC20-120K-RC	12	10	45	2	22	1.00	15
MLC20-150K-RC	15	10	35	1	19	0.70	5
MLC20-180K-RC	18	10	35	1	18	0.75	5
MLC20-220K-RC	22	10	35	1	16	0.90	5
MLC20-270K-RC	27	10	35	1	14	0.90	5
MLC20-330K-RC	33	10	35	0.4	13	1.05	5

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 HP4195A.

**Inductance vs. DC Current Characteristics:** Measured on LCR Meter HP42585A.

**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 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.: 40°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.: 40°C. Time: 1000 hrs.

**Operating Temp.:** -25°C to +85°C.

**Storage Temp.:** -40°C to +85°C.

### Physical

**Packaging:** 3000 pieces per 7 inch reel.