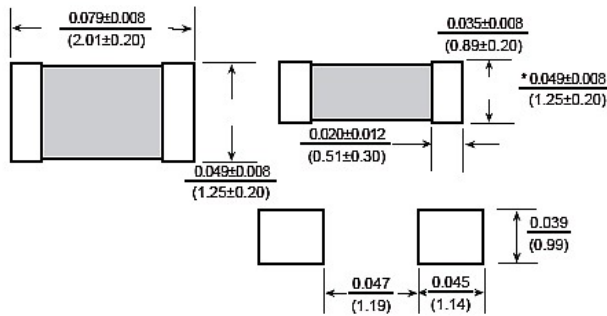




# Multilayer Chip Inductor WMLC10



Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



WMLC10

Part Number	Inductance $\mu\text{H}$	Tolerance %	Q min	Test Freq MHz	SRF min MHz	DCR max ohms	IDC mA
WMLC10-R022M-LF	0.022	20	20	50	320	0.2	300
WMLC10-R033M-LF	0.033	20	20	50	320	0.2	300
WMLC10-R047M-LF	0.047	20	20	50	320	0.2	300
WMLC10-R056M-LF	0.056	20	20	50	320	0.2	300
WMLC10-R068M-LF	0.068	20	20	50	280	0.2	300
WMLC10-R082M-LF	0.082	20	20	50	255	0.2	300
WMLC10-R10M-LF	0.1	20	25	25	235	0.3	250
WMLC10-R12M-LF	0.12	20	25	25	220	0.3	250
WMLC10-R15M-LF	0.15	20	25	25	200	0.4	250
WMLC10-R18M-LF	0.18	20	25	25	185	0.4	250
WMLC10-R22M-LF	0.22	20	25	25	170	0.5	250
WMLC10-R27M-LF	0.27	20	25	25	150	0.5	250
WMLC10-R33M-LF	0.33	20	25	25	145	0.55	250
WMLC10-R39M-LF	0.39	20	25	25	135	0.65	250
WMLC10-R47M-LF	0.47	20	25	25	125	0.65	250
WMLC10-R56M-LF	0.56	20	25	25	115	0.75	150
WMLC10-R68M-LF	0.68	20	25	25	105	0.8	150
WMLC10-R82M-LF	0.82	20	25	25	100	1	150
WMLC10-1R0K-LF	1	10	45	10	75	0.4	50
WMLC10-1R2K-LF	1.2	10	45	10	65	0.5	50
WMLC10-1R5K-LF	1.5	10	45	10	60	0.5	50
WMLC10-1R8K-LF	1.8	10	45	10	55	0.6	50
WMLC10-2R2K-LF	2.2	10	45	10	50	0.65	30
WMLC10-2R7K-LF	2.7	10	45	10	45	0.75	30
WMLC10-3R3K-LF *	3.3	10	45	10	41	0.8	30
WMLC10-3R9K-LF *	3.9	10	45	10	38	0.9	30
WMLC10-4R7K-LF *	4.7	10	45	10	35	1	30
WMLC10-5R6K-LF *	5.6	10	45	4	32	0.9	15
WMLC10-6R8K-LF *	6.8	10	45	4	29	1	15
WMLC10-8R2K-LF *	8.2	10	45	4	26	1.1	15
WMLC10-100K-LF *	10	10	45	2	24	1.1	15
WMLC10-120K-LF *	12	10	45	2	22	1.2	15
WMLC10-150K-LF *	15	10	30	1	19	0.8	5
WMLC10-180K-LF *	18	10	30	1	18	0.9	5
WMLC10-220K-LF *	22	10	30	1	16	1.1	5
WMLC10-270K-LF *	27	10	30	1	13	1.25	5

\* See packaging difference.

**Environmental**  
**Thermal Shock:** Inductance shall be within  $\pm 5\%$  of initial value. Q shall be within  $\pm 30\%$  of initial value within temp. range of  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$  for 30 min. each for  $> 100$  cycles.  
**Humidity Resistance:** Same results as above. Temp.  $4^\circ\text{C}$ . Humidity: 95% RH.  
**Time:** 1000 hrs.  
**High Temp Resistance:** Same results as above. Temp:  $85^\circ\text{C}$ . Time: 1000 hrs.  
**Low Temp Resistance:** Same results as above. Temp:  $-45^\circ\text{C}$ . Time: 1000 hrs.  
**Operating Temp.:**  $-25^\circ\text{C}$  to  $+85^\circ\text{C}$ .  
**Storage Temp.:**  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$ .

**Mechanical**  
**Solderability:** 90% terminal coverage.  
**Preheat:**  $120 \pm 20^\circ\text{C}$  for 60 sec.  
**Solder:** H63A. Solder Temp.:  $230 \pm 5^\circ\text{C}$ .  
**Flux:** rosin.  
**Dip time:**  $4 \pm 1$  sec.

**Physical**  
**Packaging:** .  
 022 $\mu\text{H}$  - 2.2 $\mu\text{H}$ ,  
 4000 pieces per reel.  
 2.7 $\mu\text{H}$  - 27 $\mu\text{H}$ ,  
 3000 pieces per reel