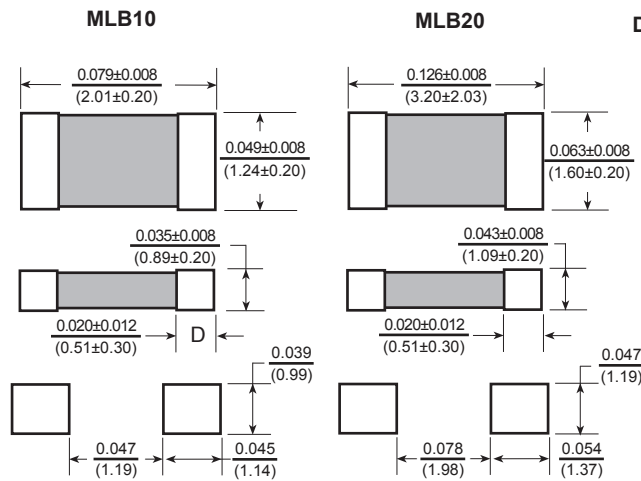


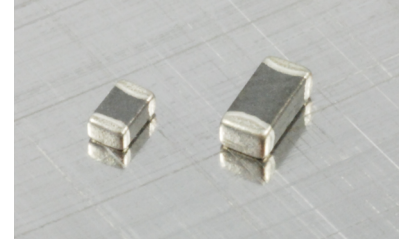


# MLB10 & 20

# Multilayer Chip Beads



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



### Electrical

**Impedance vs. Frequency Characteristics:** Measured on HP4195A Network/Spectrum Analyzer.

### Mechanical

**Solderability:** 90% terminal coverage. Preheat:  $120 \pm 20^\circ\text{C}$  for 60 sec. Solder Temp:  $230 \pm 5^\circ\text{C}$ . Flux: rosin. Dip time:  $3 \pm 1$  sec.

**Soldering Heat Resistance:** Preheat:  $12^\circ$  to  $150^\circ\text{C}$ . Solder: H63A. Solder Temp:  $300 \pm 5^\circ\text{C}$ . Flux: rosin. Dip time  $10 \pm 5$  sec.

### Terminal Strength:

MLB10	1.0 kgf	$30 \pm 5$ sec.
MLB20	2.0 kgf	$30 \pm 5$ sec.

### Bending Strength:

3.0 kgf
6.0 kgf

### Environmental

**Thermal Shock:** Impedance shall be within  $\pm 20\%$  of initial value when temp. is  $-25^\circ\text{C}$  and  $+85^\circ\text{C}$  for 30 min. each for 50 cycles.

Humidity: Same results as above when temp. is  $+60^\circ\text{C}$ , humidity @ 90% RH, applied current is 300m ADC for 500 hrs.

**Operating Temp.:**  $-25^\circ\text{C}$  to  $+85^\circ\text{C}$ .

**Storage Temp.:**  $-40^\circ\text{C}$  to  $+85^\circ\text{C}$ .

### Physical

**Packaging:** MLB10 - 4000 per 7 inch reel.  
 MLB20 - 3000 per 7 inch reel.

Allied Part Number	Impedance ( $\Omega$ ) @ 100 MHz +/- 25%	DC Resistance ( $\Omega$ ) Max.	Rated Current (mA)
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### MLB10

MLB10-070-RC	7	0.10	600
MLB10-090-RC	9	0.10	600
MLB10-110-RC	11	0.10	600
MLB10-170-RC	17	0.10	600
MLB10-320-RC	32	0.10	600
MLB10-600-RC	60	0.15	500
MLB10-700-RC	70	0.15	500
MLB10-800-RC	80	0.15	500
MLB10-121-RC	120	0.25	300
MLB10-151-RC	150	0.25	300
MLB10-221-RC	220	0.30	300
MLB10-301-RC	300	0.30	300
MLB10-401-RC	400	0.30	300
MLB10-501-RC	500	0.40	300
MLB10-601-RC	600	0.40	300
MLB10-751-RC	750	0.50	200
MLB10-102-RC	1000	0.50	200
MLB10-152-RC	1500	0.60	200
MLB10-202-RC	2000	0.70	200
MLB10-222-RC	2200	0.70	200
MLB10-252-RC	2500	0.70	200
MLB10-272-RC	2200	0.70	200

### MLB20

MLB20-190-RC	19	0.05	600
MLB20-260-RC	26	0.05	600
MLB20-320-RC	32	0.05	600
MLB20-500-RC	50	0.10	500
MLB20-600-RC	60	0.10	500
MLB20-700-RC	70	0.10	500
MLB20-900-RC	90	0.15	500
MLB20-121-RC	120	0.15	500
MLB20-151-RC	150	0.15	500
MLB20-201-RC	200	0.20	400
MLB20-401-RC	400	0.20	400
MLB20-501-RC	500	0.20	400
MLB20-601-RC	600	0.30	400
MLB20-102-RC	*1000	0.40	200
MLB20-122-RC	*1200	0.40	200
MLB20-152-RC	*1500	0.45	200
MLB20-202-RC	**2000	0.60	200
MLB20-272-RC	**2700	0.60	200

\* at 50MHz. \*\* at 30MHz. All specifications subject to change without notice.