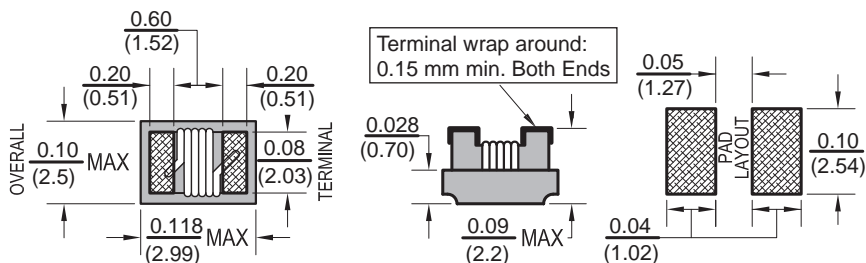


# LS10 Ferrite Core Chip Inductors



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



Allied Part Number	Inductance ( $\mu\text{h}$ )	Tolerance (%)	Q Typ.	(L) Test Freq. (MHz)	SRF Min. (MHz)	DCR Max. ( $\Omega$ )	IDC Current (mA)
LS10-1R2J-RC	1.20	5	55	7.9	350	0.50	1200
LS10-1R5J-RC	1.50	5	58	7.9	300	0.65	1200
LS10-1R8J-RC	1.80	5	54	7.9	280	0.75	1050
LS10-2R2J-RC	2.20	5	48	7.9	250	0.90	950
LS10-2R7J-RC	2.70	5	51	7.9	200	1.00	950
LS10-3R3J-RC	3.30	5	58	7.9	200	1.15	900
LS10-3R9J-RC	3.90	5	37	7.9	170	1.25	850
LS10-4R7J-RC	4.70	5	37	7.9	130	1.35	800
LS10-5R6J-RC	5.60	5	36	7.9	110	1.45	700
LS10-6R8J-RC	6.80	5	33	7.9	105	1.60	600
LS10-8R2J-RC	8.20	5	40	7.9	90	1.80	550
LS10-100J-RC	10.0	5	40	7.9	85	2.40	500
LS10-150J-RC	15.0	5	35	7.9	38	2.40	450

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

## Features

- 1008 SMD for Auto Insertion
- Low DCR for Low Loss Applications
- Excellent Solderability Characteristics
- Highly resistant to mechanical forces
- Excellent reliability in temperature and climate change

## Electrical

**Inductance Range:** 1.2 $\mu\text{h}$  to 15 $\mu\text{h}$

**Tolerance:** 5% across entire range.  
Also available in 10% and 20%.

**Test Frequency:** (L) entire range @ 7.96Mhz @ 200mv (Q) from 1.2 $\mu\text{h}$  to 3.3 $\mu\text{h}$  @ 50Mhz, from 3.9 $\mu\text{h}$  to 15 $\mu\text{h}$  @ 7.9Mhz

**Operating Temp. Range:** -25°C ~ 85°C

**IDC:** Inductance drop 10% Typ. from original value with no current

## Resistance to Solder Heat

Pre-Heat 150°C, 1 minute

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Solder Temp.** 260°C peak for 10 sec.

**Test time:** 6 minutes

## Test Equipment

**(L/Q):** HP4286A / HP4287A /Agilent E4991A

**(DCR):** Chen Hwa 502BC

**(SRF):** HP8753D / Agilent E4991

**(IDC):** HP4284A with HP42841A / HP4285A with HP42841A

## Physical

**Packaging:** 2000 pieces per 7 inch reel

**Marking:** 3 Dot Color Code