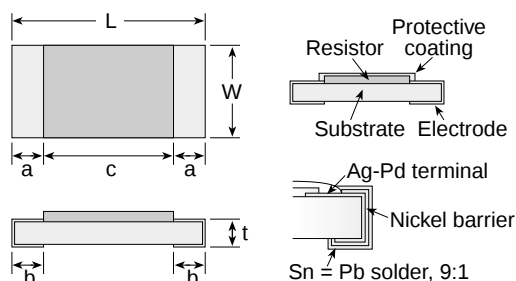


LVC Series

Low Value Chip Resistors



PERFORMANCE DATA

Load Life	1000 Hrs 70°C	$\Delta R \pm (3.0\% + 0.01) \Omega$
Humidity	1000 Hrs 60°C 90-95% RH	$\Delta R \pm (2.0\% + 0.01) \Omega$
Temperature Cycle	5 Cycles -55°C to +125°C	$\Delta R \pm (1.0\% + 0.01) \Omega$
High Temp Operation	1000 Hrs 125°C	$\Delta R \pm (1.0\% + 0.01) \Omega$
Low Temp Operation	1000 Hrs -55°C	$\Delta R \pm (1.0\% + 0.01) \Omega$
Short Time Overload	5 Sec. 2.5 x Rated Power	$\Delta R \pm (2.0\% + 0.01) \Omega$
Effects of Solder Heat	10 Sec. 260°C	$\Delta R \pm (1.0\% + 0.01) \Omega$
Derating	100% @ 70°C, Derates Linearly to Zero @ 125°C	

ELECTRICAL

Electrical	LVC06 1206	LVC20 2010	LVC25 2512
Rated Power Watts	0.25	0.50	1.0
Temperature Coefficient ppm/°C			
Resistance	0.05 - 0.09	N/A	350
Range	0.10 - 0.18	200	100
	0.20 - 1.0	100	100
Max. Working Volts	$E = \sqrt{WR}$ (W = Rated Watts, R = Resistance Value)		
Resistance Tolerance	±5% Std, 1% Available		
Quantity Per Reel	5,000	4,000	4,000

ORDERING INFORMATION

LVC06JR249V

Low Value Chip Series Case Size: 06 = 1206, 20 = 2010, 25 = 2512 Tolerance: F = 1%, J = 5% Ohms: R249 = 0.249, 1R00 = 1.0 Taping Code: blank = bulk package, V = reel taped

Ohmite's LVC Series low value chip resistors are ideal for today's current sense applications requiring low profile, low cost solutions. Available in 0.25, 0.5, and 1 watt sizes, footprints are 1206, 2010, and 2512 size respectively. These resistors are offered in ohmic ranges from 0.05 ohm to 1ohm in standard ±5% E24 values, 1% tolerance available on request.

The LVC Series resistors are well suited for a variety of industrial and commercial applications.

FEATURES

- Industry Standard Sizes
- Terminal Barrier Resists Ag Migration
- Working Temperature Range is from -55°C to +125°C
- Designed for Automatic Insertion

APPLICATIONS

- Switching Power Supplies
- Cellular
- Telecom and Wireless
- Computer
- RF

SPECIFICATIONS

Material

Substrate: Alumina

Resistor: Thick Film

Coating: Glass

DIMENSIONS (in.)

Size	L	W	t	a	b	c
LVC06	0.126 +0.002 -0.008	0.063 +0.002 -0.006	0.02 +0.004 -0.004	0.02 +0.010 -0.010	0.02 +0.012 -0.012	0.09
LVC20	0.197 +0.008 -0.008	0.098 +0.006 -0.006	0.024 +0.004 -0.004	0.024 +0.008 -0.008	0.020 +0.012 -0.012	0.15
LVC25	0.25 +0.008 -0.008	0.13 +0.008 -0.008	0.02 +0.004 -0.004	0.03 +0.008 -0.008	0.03 +0.008 -0.008	0.20

STANDARD PART NUMBERS

Ohms	LVC06		LVC20	LVC25	
	1%	5%	5%	1%	5%
0.05				LVC25FR050	LVC25JR050
0.051			LVC20JR051		LVC25JR051
0.075			LVC20JR075		LVC25JR075
0.1	LVC06FR100	LVC06JR100	LVC20JR100	LVC25FR100	LVC25JR100
0.15	LVC06FR150	LVC06JR150	LVC20JR150	LVC25FR150	LVC25JR150
0.18		LVC06JR180	LVC20JR180		LVC25JR180
0.2	LVC06FR200	LVC06JR200	LVC20JR200	LVC25FR200	LVC25JR200
0.25	LVC06FR250			LVC25FR250	
0.27		LVC06JR270	LVC20JR270		LVC25JR270
0.3		LVC06JR300	LVC20JR300		LVC25JR300
0.33	LVC06FR330	LVC06JR330	LVC20JR330	LVC25FR330	LVC25JR330
0.39	LVC06FR390	LVC06JR390	LVC20JR390	LVC25FR390	LVC25JR390
0.47	LVC06FR470	LVC06JR470	LVC20JR470	LVC25FR470	LVC25JR470
0.51		LVC06JR510	LVC20JR510	LVC25FR510	LVC25JR510
0.62		LVC06JR620			LVC25JR620
0.75	LVC06FR750	LVC06JR750	LVC20JR750	LVC25FR750	LVC25JR750
0.82		LVC06JR820			LVC25JR820
1	LVC06FR1R00	LVC06JR1R00	LVC20JR1R00	LVC25FR1R00	LVC25JR1R00