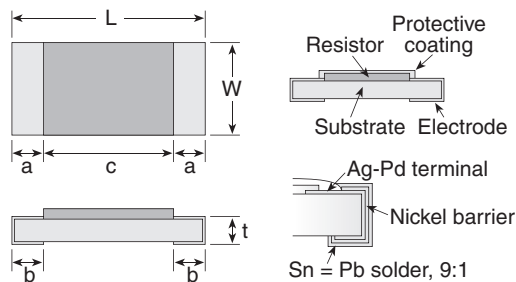


LVC Series

Low Value Chip Resistors RoHS Compliant



Series	Power Rating (W @70°C)	Resistance Range (Ω)	TCR (ppm/°C)	Tolerance	Available Values
LVC06	0.25W	0.010-0.030	0 ±500ppm	1%, 2%, 5%	E12
		0.033-0.051	0 ±200ppm	1%, 2%, 5%	E12
		0.056-0.100	0 ±100ppm	1%, 2%, 5%	E12
LVC20	0.5W	0.100-0.976	0 ±200ppm	1%, 2%, 5%	E24, E96
		0.010-0.030	0 ±500ppm	1%, 2%, 5%	E12
		0.033-0.100	0 ±200ppm	1%, 2%, 5%	E12
LVC25	1.0W	0.100-0.976	0 ±100ppm	1%, 2%, 5%	E24, E96
		0.010-0.030	0 ±500ppm	1%, 2%, 5%	E12
		0.033-0.100	0 ±200ppm	1%, 2%, 5%	E12

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

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 10hm 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

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 (Ω)	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				
RoHS Compliant				
L V C 0 6 J R 2 4 9 E V				
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