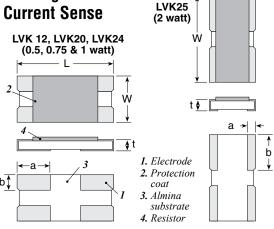
LVK Series

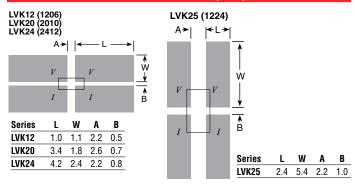
Four Terminal High Precision Current Sense



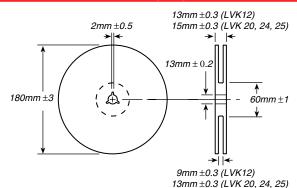
Series	Pkg. Size	Power Rating (W @70°C)	Resistance Range (Ω)	TCR (ppm/°C)	Tolerance	Available Values
LVK12	1206	0.5W	0.01-0.05	50ppm	0.5%, 1%	E12
LVK20	2010	0.75W	0.01-0.05	50ppm	0.5%, 1%	E12
LVK24	2412	1.0W	0.01-0.05	50ppm	0.5%, 1%	E12
LVK25	1224	2.0W	0.001 0.002-0.004 0.005-0.01	300ppm 200ppm 100ppm	1%	1, 2, 3, 4, 5, 6, 7, 8, 9, 10 mΩ

	DI	MENSIO	NS (mm)		
Size	L	W	t	a	b
LVK12 (1206)	3.2 ±0.2	1.6 ±0.2	0.5 ±0.15	1.0 ±0.2	0.55 ±0.2
LVK20 (2010)	5.0 ±0.2	2.5 ±0.2	0.5 ±0.15	1.7 ±0.2	0.9 ±0.2
LVK24 (2412)	6.4 ±0.2	3.2 ±0.2	0.5 ±0.15	2.1 ±0.2	1.2 ±0.2
LVK25 (1224)	3.2 ±0.2	6.4 ±0.2	0.5 ±0.2	0.4 ±0.2	2.7 ±0.2

LAND PATTERN (mm)



REEL (mm)



FEATURES

- Designed for automatic insertion
- · Industry standard sizes
- · High-precision kelvin connect capability in a small package

SPECIFICATIONS

Resistance Range: $0.001\Omega - 0.05\Omega$

Operating Temperature Range: -40°C to +125°C

Rated Ambient Temperature: +70°C

Resistance Tolerance:

0.5% and 1% standard

Temperature Coefficient:

LVK12, LVK20, LVK24: 50ppm

standard

LVK25: 100ppm, 200ppm, or 300ppm based on resistance value

Terminals: 100% matte tin

SCHEMATIC

V = sensing terminal (voltage)

I = current terminal

ORDERING INFORMATION

RoHS Compliant

$\mathbf{E} \mathbf{R}$

Case Size Ohms Tolerance Taping Code 12 = 1206 20 = 2010 D = 0.5% R = 1,000 pc/reel F = 1% R005 = 0.00524 = 241225 = 1224

Check product availability at www.ohmite.com

STANDARD VALUES

Current sense resistors enable

the measurement of current

flow in a circuit by monitoring

a voltage drop across a pre-

cisely calibrated resistance.

The LVK chip features four

terminals, also known as a

"Kelvin" configuration. This

ing voltage to be measured

to be applied through two

configuration enables current

opposite terminals and a sens-

across the other two terminals.

eliminating the resistance and

temperature coefficient of the

terminals for a more accurate

Isolating the voltage

and current terminals (see

accurate current measure-

ment. Ohmite's proprietary

Resistance (TCR) even for very low resistance values. The resistive element consists of a durable, anti-corrosive metal alloy that combines

reliable performance with the

ronments.

ability to withstand harsh envi-

technology offers an excellent Temperature Coefficient of

schematic) facilitates à very

current measurement.

LVK12	LVK20	LVK24	LVK25				
1% Tolerance							
0.01	0.01	0.01	0.001				
0.012		0.012	0.002				
	0.015	0.015	0.003				
			0.005				
0.02	0.02	0.02					
0.024	0.027						
0.03	0.03	0.03	0.01				
		0.039					
	0.039						
0.047		0.047					
0.05	0.05	0.05					
0.5% Tolerance							
0.01	0.01	0.01					
0.02	0.02	0.02					
0.03	0.03	0.03					
0.05	0.05	0.05					