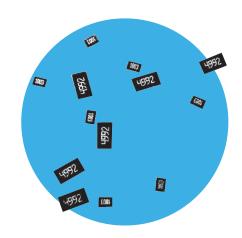
Resistors

Lower Range High Voltage Chip Resistors

LHVC Series

- Superior voltage performance over commercial range chips
- 0603 to 2512 sizes
- Resistance 50K to 10M
- RoHS compliant







All parts are Pb-free and comply with EU Directive 2011/65/EU amended by (EU) 2015/863 (RoHS3)

Electrical Data

		LHVC0603	LHVC0805	LHVC1206	LHVC2010	LHVC2512		
Power rating at 70°C	watts	0.1	0.125	0.25	0.5	1		
Resistance range	ohms		100K to 10M			50K to 10M		
Limiting element voltage	dc / ac pk volts	200	400	500	1600	2000		
5s Overload voltage	dc / ac pk volts	400	800	1000	2500	3000		
Dielectric withstand voltage	ectric withstand voltage dc / ac pk volts		300 500					
TCR	ppm/°C	±200						
Resistance tolerance	%	1, 5						
Standard values		5%: E24, 1%: E96						
Ambient temperature range	°C	-55 to +155						

Physical Data

Dimensions (mm) and weight (mg)							-	
Туре	L	W	Т	D1	D2	Wt. nom.		w
LHVC0603	1.6 ±0.1	0.8 +0.15/-0.1	0.45 ±0.1	0.3 ±0.2	0.3 ±0.2	2.1	1	—
LHVC0805	2 ±0.15	1.25 +0.15/-0.1	0.55 ±0.1	0.4 ±0.2	0.4 ±0.2	4.7	⊣DI⊢ ⊣	D1⊢
LHVC1206	3.1 ±0.15	1.55 +0.15/-0.1	0.55 ±0.1	0.45 ±0.2	0.45 ±0.2	8.5	Г	T.
LHVC2010	5 ±0.1	2.5 +0.15/-0.1	0.55 ±0.1	0.6 ±0.25	0.5 ±0.3	25		□] Ţ,
LHVC2512	6.35 +0.1	3.2 +0.15/-0.1	0.55 ±0.1	0.6 ±0.25	0.5 ±0.2	44	7D2F 4	D2F-

Construction

Pd/Ag terminations are applied to the top and bottom of an alumina substrate. A resistive element is printed between the top face conductors, which is then adjusted to value and protected.

A wraparound conductor is applied to join the top and bottom sides. The terminations are electroplated with a Ni barrier layer prior to plating with a Sn finish.

Marking

Where space allows, LHVC resistors are marked with value in three or four characters. The coding is two digits for E24 or three digits for E96 followed by one multiplier expressing the number of zeros. For E96 values on LHVC0603 standard EIA-96 codes are used, consisting of a 2 digit value code and one letter multiplier code.

Solvent Resistance

The body protection and marking are resistant to all normal industrial solvents suitable for printed circuits.

BI Technologies IRC Welwyn

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Electronics

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Flammability

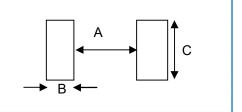
The resistor will not burn or emit incandescent particles under any condition of applied temperature or overload.

Solderability

95% min coverage (MIL-STD 202F / 208H, 235C 2 secs)

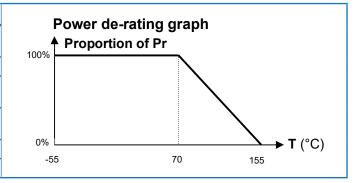
Mounting (nominal dimensions in mm)

Type	А	В	С
LHVC0603	0.7	0.7	1.0
LHVC0805	1.0	0.8	1.50
LHVC1206	2.0	1.0	1.75
LHVC2010	4.0	1.2	2.75
LHVC2512	5.3	1.2	3.5



Performance Data

		Maximum
Load at rated power (1000hrs cyclic load at 70°C)	∆ R%	±3
De-rating from rated power at 70°C	See Graph	
Short term overload (6.25 x rated power for 5s)	Δ R%	±2
Temperature rapid change (-55 / +155°C, 5 cycles)	∆ R%	1% tolerance: ±0.5, 5% tolerance: ±1
Damp heat steady state	∆ R%	±3
Insulation resistance	Δ R%	>1000M

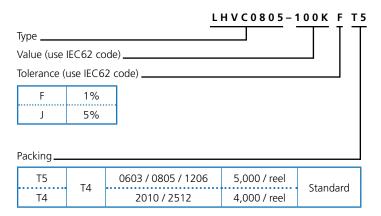


Packaging

The standard packing for LHVC0603, 0805 and 1206 is in 8mm wide paper tape, for LHVC2010 is in 12mm wide paper or plastic tape and for LHVC2512 is in 12mm wide plastic tape. This is wound on a reel of 178mm diameter.

Ordering Procedure

Example: LHVC0805 at 100 kilohms and 1% tolerance on reel of 5000 pieces:



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