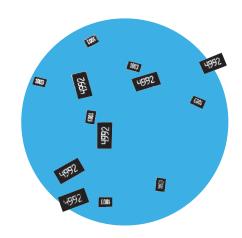
Resistors

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	dc / ac pk volts				00		
TCR	ppm/°C						
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

Lower Range High Voltage Chip Resistors

Electronics

LHVC Series

Flammability

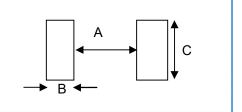
The resistor will not burn or emit incandescent particles under any condition of applied temperature or overload.

Solderability

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

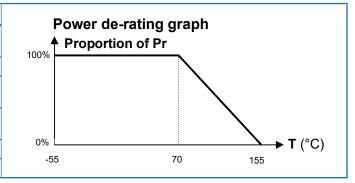
Mounting (nominal dimensions in mm)

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)	∆ 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	∆ R%	>1000M

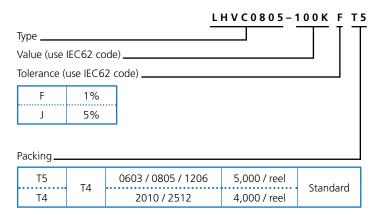


Packaging

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:



X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Multilayer Ceramic Capacitors MLCC - SMD/SMT category:

Click to view products by TT Electronics manufacturer:

Other Similar products are found below:

M39014/02-1218V M39014/02-1225V M39014/02-1262V M39014/22-0631 1210J5000102JCT 1210J2K00102KXT 1210J5000103KXT 1210J5000103KXT 1210J5000103KXT 1210J5000223KXT D55342E07B379BR-TR D55342E07B523DR-T/R 1812J1K00103KXT 1812J1K00473KXT 1812J2K00680JCT 1812J4K00102MXT 1812J5000102JCT 1812J5000103JCT 1812J5000682JCT NIN-FB391JTRF NIN-FC2R7JTRF NPIS27H102MTRF C1206C101J1GAC C1608C0G1E472JT000N C2012C0G2A472J CA050M0047REH-0607 2220J2K00101JCT KHC201E225M76N0T00 1812J1K00222JCT 1812J2K00102KXT 1812J2K00222KXT 1812J2K00472KXT 2-1622820-7-CUT-TAPE 2220J3K00102KXT 2225J2500824KXT CCR07CG103KM CGA2B2C0G1H010C CGA2B2C0G1H040C CGA2B2C0G1H050C CGA2B2C0G1H060D CGA2B2C0G1H070D CGA2B2C0G1H151J CGA2B2C0G1H1R5C CGA2B2C0G1H2R2C CGA2B2C0G1H3R3C CGA2B2C0G1H680J CGA4J2X7R2A104K