Lower Range High Voltage Chip Resistors

LHVC Series

- Superior voltage performance over commercial range chips
- 0805, 1206 and 2010 sizes
- Resistance 50Kohms to 10Mohms
- RoHS compliant

Electrical Data

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

Physical Data

Dimensions in mm						
Туре	L	W	Т	D1	D2	Nom wt. (g)
LHVC0805	2.00 ±0.15	1.25 +0.15/-0.10	0.55 ±0.10	0.40 ±0.20	0.40 ±0.20	0.005
LHVC1206	3.10 ±0.15	1.55 +0.15/-0.10	0.55 ±0.10	0.45 ±0.20	0.45 ±0.20	0.012
LHVC2010	5.00 ±0.10	2.50 +0.15/-0.10	0.55 ±0.10	0.60 ±0.25	0.50 ±0.20	0.036

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.

Solvent Resistance

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

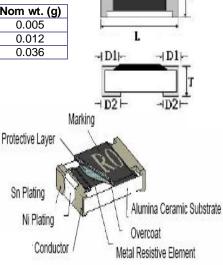
Flammability

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

Solderability

General Note

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

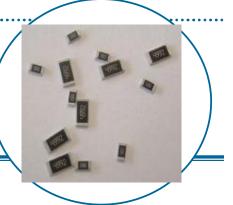




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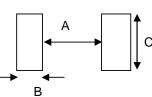
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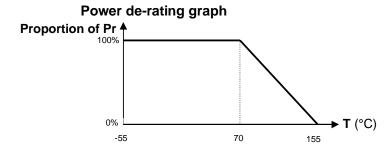


Mounting	(nominal dimensions in mm)					
Туре	Α	В	С			
LHVC0805	1.0	0.8	1.50			
LHVC1206	2.0	1.0	1.75			
LHVC2010	4.0	1.2	2.75			



Performance Data

		Maximum
Load at rated power (1000hrs cyclic load at 70°C)	$\Delta R\%$	±3
De-rating from rated power at 70°C		See Graph
Short term overload (6.25 x rated power for 5s)	$\Delta R\%$	±2 (0805, 2010): ±3(1206)
Temperature rapid change (-55 / +155°C, 5 cycles)	$\Delta R\%$	±0.5 (1% tolerance chips): ±1 (5% tolerance chips)
Damp heat steady state	$\Delta R\%$	±3
Insulation resistance	ohms	>1000MΩ



Packaging

The standard packing for LHVC0805 and 1206 parts is on 8mm wide paper tape wound on 178mm diameter reels. LHVC2010 parts are packed in plastic 12mm wide tape on a 178mm reel.

Ordering Procedure

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

Тур	oe —					LHV	<u>C0805</u> –	<u>100K</u>	<u>F T5</u>
Val	Value (use IEC62 code)								
Tol F J	Tolerance (use IEC62 code) F 1% J 5%								
Packing —									
T5	Tana	0805 / 1206	5,000 / reel	Standard					
T4	Таре	2010	4,000 / reel	Stanuaru					

General Note

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