imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Resistors

Low Resistance Metal Element Resistors

LOB Series

- Ultra low resistance values to 0.005Ω
- Available in 1, 3 and 5 watt rated packages
- Tolerances from ±1% to ±5%
- Inherently non-inductive (≤.02µH at 0.5MHz)
- Low temperature coefficient of resistance
- High stability over life

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

Electrical Data

		LOB-1	LOB-3	LOB-5
Continuous power dissipation at 25°C in free air	watts	1	3	5
Overload power for 5 seconds	watts	5	15	25
Resistance range	ohms	R005 to R100	R005 to R120	R005 to R100
Maximum working voltage	volts	$\sqrt{1xR}$	√ 3xR	√5xR
Operating temperature	°C	-55 to 175	-55 to 175	-55 to 175

* Power Dissipation - The maximum wattage rating depends upon the amount of heat which can be transferred to the surroundings while not exceeding the maximum element temperature. Ambient air temperature, velocity of cooling air, thermal resistance of heat and the temperature of surrounding objects will affect this transfer, this must be taken into account when selecting a resistor.

Physical Data

Dimensions (mm)						
Туре	L	D	f	d	C nom	contact point
LOB-1	9.9±0.3	3.6±02	38.1±32	0.813±0.05	33.27	
LOB-3	14.22±0.25	5.33±0.25	34.93±3.18	0.81±0.05	33.27	^o ^D f
LOB-5	23.37±0.25	8.38±0.25	31.75±3.18	1.02±0.05	42.42	

Description

LOB Series power precision metal element resistors feature resistance values down to 0.005 Ω with virtually no inductance. Available in 1, 3 and 5 watt rated axial leaded packages, these resistors are compatible with automatic insertion equipment.

Applications

- Switchmode and linear power supplies.
- Automotive current-sensing circuits.
- Instrumentation.

Construction

LOB Series resistors feature tinned copper leads welded directly to a low temperature coefficient resistance element in a highly automated proprietary process. The leaded resistor elements are then encapsulated in a moulding compound.



TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

www.ttelectronics.com/resistors

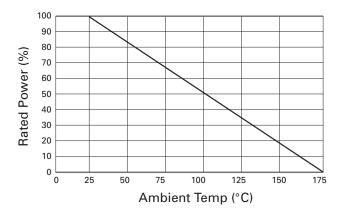




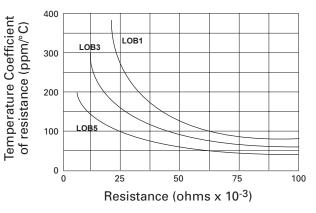
LOB Series



Power derating percentage vs Free air ambient temperature



Temperature coefficient of resistance vs Resistance value



Test	MIL-STD 202	MAX %∆R*	Unit
Load life (2000 hours)	Method 108	±1%	% ∆ R
Thermal shock	Method 107	±1%	% Δ R
Vibration	Method 204	±0.5%	%ΔR
Mechanical shock	Method 213	±0.5%	%∆R
Dielectric strength	Method 301	±0.5%	% ∆ R
Insulation resistance	Method 302	>10 ¹¹	ohms

*±0.0005 ohm allowance for test/contact error.

Packaging

Resistors are supplied taped and reeled. Bulk packaging available.

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LOB Series



Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: LOB3-R01JI (LOB3, 10 milliohms ±5%, Pb-free)

L O B 3 - R 0 1 J 1 1 2 3 4					
1	1 2 3 4				
Туре	Value	Tolerance	Packing	g & Termination Finish	
LOB1	R = ohms	F* = ±1%	I = Standard packing & Pb-free		
LOB3		H = ±3%	PB = Standard packing & SnPb		
LOB5		J* = ±5%	LOB1	Taped, 3500/reel	
	-	* preferred	LOB3	Taped, 1250/reel	
			LOB5	Taped, 800/reel	

USA (IRC) Part Number: LOB-3R010FLFSLT (LOB3, 10 milliohms ±5%, Pb-free)

L O B - 3	R 0 1 0	FLFSLT
1	2	3 4 5

1	2	3	4	5	
Туре	Value	Tolerance	Termination Finish	Packing	
LOB-1	R = ohms	F = ±1%	Omit for SnPb	SLT = Lead Tape*	
LOB-3		H = ±3%	LF = Pb-free	LOB-1	3500/reel
LOB-5		J = ±5%		LOB-3	1250/reel
				LOB-5	800/reel
				BLK =	= Bulk
				LOB-1	1500/box
				LOB-3	800/box
				LOB-5	200/box

* preferred

General Note

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BI Technologies IRC Welwyn