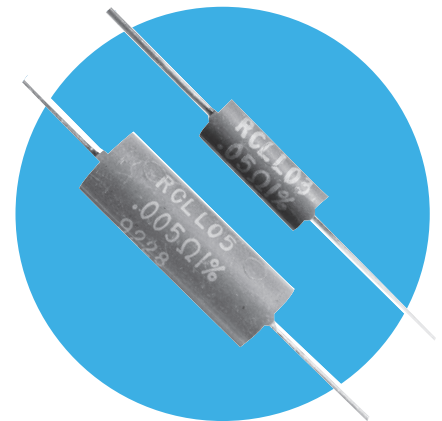


Low Resistance Metal Element Resistors

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 ($\leq 0.02\mu\text{H}$ 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	$\sqrt{1 \times R}$	$\sqrt{3 \times R}$	$\sqrt{5 \times R}$
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)					
Type	L	D	f	d	C nom
LOB-1	9.9±0.3	3.6±0.2	38.1±3.2	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
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.

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.

Applications

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

General Note

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.

LOB Series

**Power derating percentage vs
Free air ambient temperature**



**Temperature coefficient of resistance vs
Resistance value**



Test	MIL-STD 202	MAX %ΔR*	Unit
Load life (2000 hours)	Method 108	±1%	%ΔR
Thermal shock	Method 107	±1%	%ΔR
Vibration	Method 204	±0.5%	%ΔR
Mechanical shock	Method 213	±0.5%	%ΔR
Dielectric strength	Method 301	±0.5%	%ΔR
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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Ordering Procedure

This product has two valid part numbers:

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



1	2	3	4
Type	Value	Tolerance	Packing & Termination Finish
LOB1	R = ohms	F* = $\pm 1\%$	I = Standard packing & Pb-free
LOB3		H = $\pm 3\%$	PB = Standard packing & SnPb
LOB5		J* = $\pm 5\%$	LOB1 Taped, 3500/reel
		* preferred	LOB3 Taped, 1250/reel
			LOB5 Taped, 800/reel

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



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

* preferred

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Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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