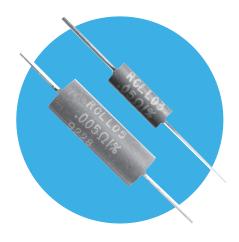
Resistors

Low Resistance Metal Element Resistors

LOB Series

- Ultra low resistance values to 0.0050
- 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)

Electi	rical	Data
Electi Lectrical	Det	3a - Citto.

EIE/										
				LOB-1			LOB-3			LOB-5
	Continuous power dissipation at 25°Cin free air	watts	LOB-1	1		LOB-3	3		LOB-5	5
Contir	uoweppowerpokssapatiepp ფლეგინე in free air watts	watts	1	5		3	15		5	25
Overlo	ad \paxiveri fer\s\ঠ্বন্দদ্বিণ্ড de ltage watts	volts	5	√1xR		15	√3xR		25	√5xR
Resista	nMdत्रीभिर्फेm storage temperature ohms	∘ R 0	05 to R	10975	RO	05 to R1	20 _{1.75}	R00	5 to R1	00 _{1.75}
Maxim	um working voltage volts *Power-DissipationThe-maximum wattage rating depends upon the amount of	heat which	√1xR can be tr	ansferred t			while	not excee	√5xR ding the r	naximum
1 .	ting tempe Paturent air temperature, velocity of cooling air, thermal resistance	f neat and	the tembe	ture of s	urroundiE	iojotoo 17el	ets will af	fect this- 5 r	5ก\$Ger,1t7ไว้	must be

^{*}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

hen selecting a resist Physical Data Physical Data

1 119	Dimen		(mm)										
Dimer	sions (n	ım)											contact point , C , contact point
	Туре	L	max.	D	max.	f	min.	d	nor	n.		Ċ	contact point ,
Туре	LOB-4	9.9)±03 D	3.6	±02 f	38.1	±32	ob.813	3±.0	. g Cno	3 B.2	7	
LOB-1	LOB ∙30	.134.2	2 ±0.5 ±0	52 33	±03 3 5.1	∄3 1293	<u>1</u> 388.89	3⊕0809≦	€0.0	33.2	3 3.27	7	d + f
LOB-3	L@B-5±	02.2 53	7 5£833 £0	82.5 8	<u>+3</u> 34, 29 3:	3 3.78	±30.1 8 1	I±100025	±0.Œ	§ 33.2	₹2.42		D
LOB-5	23.37±	0.25	8.38±0).25	31.75	±3.18	1.02	±0.05		42.4	2		

Description

LOB Seriesistancer varierisi dio vviretal @100 fe 02 reitilstoirs da la liture resistanio ed vadta escelo Avva itabli 0 e0 i 0 51 CB vavitabili 5 i intratili i nateed axial leaded inductapatek Agailatblesien resistand Sreventmatetiblexialiteaaleto matic packagiess, el neise regisitoriseme compatible with automatic insertion equipment.

Applications

Applications mode and linear power supplies.

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

Construction

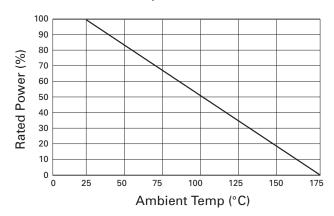
Descriptionseries power precision metal element resistors feature Constructions resistors feature tinned copper leads welded LOB Seriliese cets/istora lifeavite empiene et du recope efficients regulated ce element directly at binaria by value to present a directly at binaria by the control of t a highlyeleurtoenntasterdepthoeprientaaypsodatessl.iTiheerleadlebilmessisstoopound. elements are then encapsulated in a moulding compound.

Low Resistance Metal Element Resistors

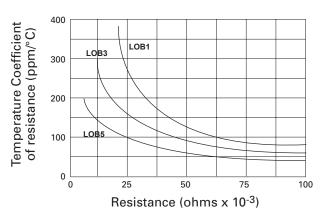




Power derating percentage vs Free air ambient temperature



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%	% ∆ R
Vibration	Method 204	±0.5%	% ∆ R
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. **LOB Series**



Ordering Procedure

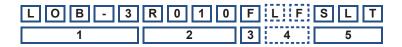
This product has two valid part numbers:

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



1	2	3		4		
Type	Value	Tolerance	Packing	g & Termination Finish		
LOB1	R = ohms	F* = ±1%	I = Standard packing & Pb-free			
LOB3		H = ±3%	PB = Standard packing & S			
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 ±5%, Pb-free)



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		$H = \pm 3\%$	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