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 ($\leq .02\mu$ H at 0.5MHz)
- Low temperature coefficient of resistance
- High stability over life



Electrical Data

				LOB-1			LOB-3			LOB-5	
	Continuous power dissipation at 25°Cin free air	watts	LOB-1	1		LOB-3	3	•••••	LOB-5	5	•••
Conti	uovepoxepoksepation සැටතියි in free air watt	watts	1	5		3	15		5	25	
Overlo	advæxineriferværengdeltage watt	volts	5	√1xR		15	√ 3xR		25	√5xR	
Resist	n Malah Storage temperature ohms	; ₀ R 0	05 to R1	109 ₇₅	RO	05 to R1	20 ₁₇₅	ROC	5 to R1	⁰⁰ 175	
Maxin	volt: *Power Dissipation — The maximum wattage rating depends upon the amount of	heat-which	√1xR can be tra	Insferred t	othe-surre	√3xR oundings∙v	vhile	notexcee	√5xR ding the n	naximum	eler
Opera	timoptemperatiblient air temperature, velocity of cooling air, thermal resistance	of heat and	hte tembe	Fa ture of s	urround i b	5jato 178	ets will af	fect this 5	55nst@er,1tR65	must be t	takı

into account when selecting a resistor. * 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 en selecting a resist nyşıçal Data Physica

Dimer	nsions (n	nm)	•••••	[•••••	[contact point
	Туре	Ľ	max.	D	max.	fr	nin.	di	lom.		C	contact point
Туре	LOB-4	9.9)±03 D	3.6	±02 f	38.1	±32	o <mark>0.</mark> 813	:0. 0 Cnc	BB.2	7	
LOB-1	LOB-30	.184.2	2±0.55±0	5 233	±03 25 .1≞	3 1293:	<u>19</u> 8.881 3	3 ⊕(80 <u>₽</u>	0.0533.2	373.27		
LOB-3	10.B-3±	02. 2 53	7 5_0.39 _0	& \$8	±304293±3	8. 7 8:	⊧30.18 1	±40025	ი. წ. 33.2	7 2.42		
LOB-5	23.37±	0.25	8.38±0).25	31.75±	3.18	1.02:	±0.05	42.4	2		

Description

LOB Seriesistance value indovnetal @ 100 fe fat resident of the later resistanicedvæltæesceloAvraitebOeOi051 CB variteb Svirvatillivateed axial leaded inductapatek Ageidatblesien res B torrd Srevent materialite ad et domatic packagers, entries and the second state of the insertion equipment.

Applications

Applicationshmode 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 Construction resistors feature tinned copper leads welded LOB Seriliesente listors literature motion and literature potential responsibilities and the element directly a doing holy vate to pear ted no rope for the provises an Televeleader of the sistor a highlyetentcemtatedepthceprietaapprodatesd.iTherheadletilnegsistorpound. elements are then encapsulated in a moulding compound.

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 %∆R*	Unit
Load life (2000 hours)	Method 108	±1%	%∆R
Thermal shock	Method 107	±1%	%∆R
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 ±5%, Pb-free)

LOB3-R01J1 1 2 3 4								
1	2	3		4				
Туре	Value	Tolerance	Packing	g & Termination Finish				
LOB1	R = ohms	F* = ±1%	I = Stan	dard packing & Pb-free				
LOB3		H = ±3%	PB = St	andard 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	F L F	SLT
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 = Le	ead 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

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 AC04000001500JAC00

 AC10000002208JAB00
 AC10000004708JAB00
 SQMW5R39J
 SQPW5R22J
 SQPW5R33J
 1879927-3
 FCB2100RJ
 T505
 FSQ5WR47J

 FW10A33R0JA
 CPCC03R5000JB31
 CPCC0510R00JE32
 CPCC051R000JB31
 CPCP10500R0JE32
 CPW05700R0JE143

 CPW152K500JE313
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 C141K0JL
 C144R7JL
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 CPCC03R2000JB31

 CPCC0515R00JE01
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 CPW103K300JE143
 CPW202R000JB14
 ULW5-39R0JT075
 W31-R47JA1
 ULW5-68RJT075

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 CPCP05R1000JE32
 AC05000005608JAC00
 SQBW403R3JFASTON
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