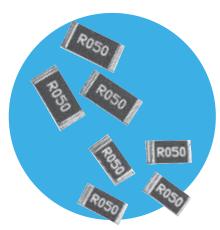
Resistors

Electron

Low Value Flat Chip Resistor

LR Series

- Standard 2512, 2010 and 1206 sizes
- Resistance values down to 0.003 ohms
- Leach resistant solder-plated copper wrap-around termination
- AEC-Q200 Qualified
- RoHS compliant and SnPb variants





All Pb-free parts comply with EU Directive 2011/65/EU (RoHS2)

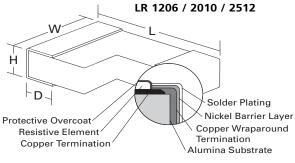
Electrical Data

		LR1206	LR2010	LR2512		
Power rating @70°C	watts	0.5	1	2		
Resistance range ¹	ohms	R003 to 1R0				
Resistance tolerance ¹	%	<r01: 1,="" 2,="" 5,="" 5<="" td="" ≥r01:=""></r01:>				
TCR	ppm/°C	≥R05: ±100, R025–R047: <+200, R015-R024: <+300, R01-R014: <+500, <r01: <+900<="" td=""></r01:>				
Dielectric withstand	volts	200				
Ambient temperature range	°C	-55 to +150				
Values		E24 preferred ²				
Temperature rise at rated power	°C	40	80	90		
Pad / trace area³	mm²	30	100	300		

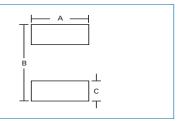
Note 1: Contact factory for value – tolerance combinations outside this range. Note 2: Many values = N x R001 and N x R005 up to N=10 are also available. Note 3: Recommended minimum pad & adjacent trace area for each termination for rated dissipation on FR4 PCB

Physical Data

Dimensions (mm)									
L	W	H (max)	D						
3.20±0.305	1.63±0.20	0.8	0.48±0.25						
5.23±0.38	2.64±0.25	0.84	0.48±0.25						
6.50±0.38	3.25±0.25	0.84	0.48±0.25						
	3.20±0.305 5.23±0.38	3.20±0.305 1.63±0.20 5.23±0.38 2.64±0.25	3.20±0.305 1.63±0.20 0.8 5.23±0.38 2.64±0.25 0.84						



Recommended Solder Pad Dimensions (mm)							
	А	C					
LR1206	2.0	4.0	1.25				
LR2010	3.05	6.5	1.5				
LR2512	3.7	7.75	1.5				



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.



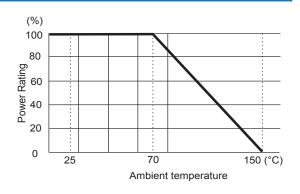
www.ttelectronicsresistors.com

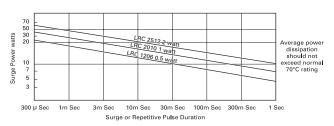
Low Value Flat Chip Resistor





	AEC-Q200 Table 7	Method	Ma	Тур.		
ref	Test	mealou	(add I	(@1R0)		
3	High Temp. Exposure	MIL-STD-202 Method 108	∆R%	0.5	0.2	
4	Temperature Cycling	JESD22 Method JA-104	∆R%	0.25	0.1	
6	Moisture Resistance	MIL-STD-202 Method 106	ΔR%	0.5	0.2	
7	Biased Humidity	MIL-STD-202 Method 103	∆R%	0.5	0.2	
8	Operational Life (Cyclic Load)	MIL-STD-202 Method 108	ΔR%	1	0.5	
14	Vibration	MIL-STD-202 Method 204	∆R%	0.5	0.05	
15	Resistance to Soldering Heat	MIL-STD-202 Method 210	∆R%	0.25	0.05	
16	Thermal Shock	MIL-STD-202 Method 107	ΔR%	0.25	0.1	
18	Solderability	J-STD-002	>95%	6 cove	coverage	
21	Board Flex	AEC-Q200-005	∆R%	0.5	0.2	
22	Terminal Strength	AEC-Q200-006	ΔR%	0.25	0.1	
	Short Term Overload	6.25 x Pr for 2s	ΔR%	0.5	•	
	Low Temperature Storage	-65°C for 100 hours	ΔR%	0.5		
	Leach Resistance	Solder dip at 250°C	90s	minin	num	





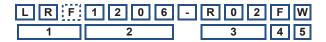
Note:

- 1. Although 2010 and 2512 sizes have passed temperature cycling and thermal shock, it is in general not recommended that ceramic chips this large be used on FR4 in a severe temperature cycle environment due to the possibility of solder joint fatigue.
- 2. Full AEC-Q200 qualification applies only to European Part Numbers at ohmic values ≥R01.

Ordering Procedure

This product has two valid part numbers:

European (Welwyn) Part Number: LRF1206-R02FW (1206, 20 milliohms ±1%, Pb-free)



1	2	3	4	5			
Туре	Size	Value	Tolerance	Termination & Packing			
LR = Conventional orientation	1206 E24 = 3/4 F = ±1% W Pb-free, standar				ee, standard packing		
(values >R025)	2010 characters 2512 R = ohms		G = ±2%	T1	Pb-free, 1000/reel (non-standard		
LRF = Flip-chip orientation			$J = \pm 5\%$	РΒ	SnPb f	inish, standard packing	
(values ≤R025)				,	Standard	packing is tape & reel	
•	_			120	6 & 2010	3000/reel	
					2512	1800/reel	

USA (IRC) Part Number: LRC-LRF1206LF-01-R020-F (1206, 20 milliohms ±1%, Pb-free)



1	2	3	4	5	6	7		
Family	Model	Size	Termination	TCR	Value	Tolerance	Packing	
LRC	LR = Conventional orientation (values >R025)	1206 2010	Omit for SnPb LF = Pb-free	01 = standard (±100ppm/°C		F = ±1% G = ±2%	Standard pa tape &	-
	LRF = Flip-chip orientation (values ≤R025)	2512		values ≥R05)		J = ±5%	1206 & 2010 2512	3000/reel 1800/reel

General Note

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OPB70DWZ OPB817Z OPB830W11Z OPB972T51 OPT-LY-04FL WMHP100-50RF W23-15RJI L083S331LF WH50-5R6JB006 WH50330RJI WH200-R10JI W23-22RJI W23-22KJI