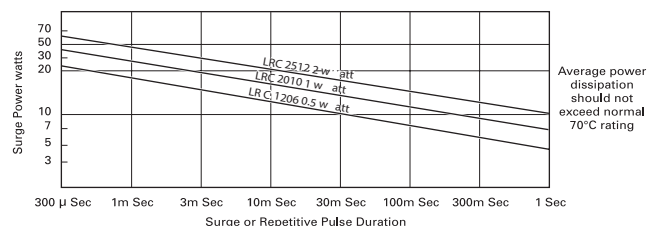
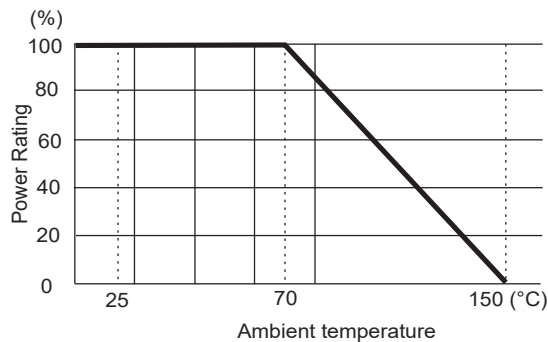


## LR Series

### Performance Data

AEC-Q200 Table 7		Method	Max.		Typ.
ref	Test		(add R05)		
3	High Temp. Exposure	MIL-STD-202 Method 108	ΔR%	0.5	0.2
4	Temperature Cycling	JESD22 Method JA-104	ΔR%	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	ΔR%	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	ΔR%	0.5	0.05
15	Resistance to Soldering Heat	MIL-STD-202 Method 210	ΔR%	0.25	0.05
16	Thermal Shock	MIL-STD-202 Method 107	ΔR%	0.25	0.1
18	Solderability	J-STD-002	>95% coverage		
21	Board Flex	AEC-Q200-005	ΔR%	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 minimum		



#### 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. Full AEC-Q200 qualification applies only to ohmic values  $\geq R01$ .

### Ordering Procedure

This product has two valid part numbers:

**European (Welwyn) Part Number: LRF1206-R02FW** (1206, 20 milliohms  $\pm 1\%$ , Pb-free)

L	R	F	1	2	0	6	-	R	0	2	F	W
1		2		3			4		5			

1	2	3	4	5	
Type	Size	Value	Tolerance	Termination & Packing	
LR = Conventional orientation (values $>R025$ )	1206	E24 = 3/4 characters	F = $\pm 1\%$	W	Pb-free, standard packing
	2010		G = $\pm 2\%$	T1	Pb-free, 1000/reel (non-standard)
LRF = Flip-chip orientation (values $\leq R025$ )	2512	R = ohms	J = $\pm 5\%$	PB	SnPb finish, standard packing
				T1PB	SnPb finish, 1000/reel (non-standard)
Standard packing is tape & reel					
				1206 & 2010	3000/reel
				2512	1800/reel

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

L	R	C	-	L	R	F	1	2	0	6	L	F	-	0	1	-	R	0	2	0	-	F
1		2		3			4		5		6			7								

1	2	3	4	5	6	7	Packing		
Family	Model	Size	Termination	TCR	Value	Tolerance			
LRC	LR = Conventional orientation (values $>R025$ )	1206	Omit for SnPb	01 = standard ( $\pm 100\text{ppm}/^\circ\text{C}$ values $\geq R05$ )	4 characters R = ohms	F = $\pm 1\%$	Standard packing is tape & reel		
		2010	LF = Pb-free			G = $\pm 2\%$	Pb-free	All sizes	1000/reel
	LRF = Flip-chip orientation (values $\leq R025$ )	2512				J = $\pm 5\%$	SnPb	1206 & 2010	3000/reel
								2512	1800/reel

#### 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.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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