Low resistance chip resistors

(long-side terminal)

■PRL / RL series

Features

· Innovative structure that takes consideration of heat dissipation suppresses the surface temperature enabling the small sizes, reduction of the influence on surrounding components, excellent temperature cycle resistance, low ESL and low

Lead free





Applications

· PC power sources, inverters, automotive electronics, adopters, industrial machines

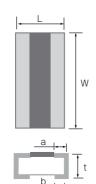
◆Part numbering system



◆Electrical Specification

Туре	Power ratings	Temperature coefficient of resistance	Resistance range(Ω) Resistance tolerance					Resistance value series	Operating temperature	Packaging quantity
	95	(ppm/°C)	±0.5% (D)	±1% (F)	±2% (G)	±5% (J)				
PRL0816	1/3W	±50	75m≦R≦1							
		±100 0 ~ +200	43m≦R≦6				'			
			_	33m≦R≦39m		_		E-24		
				18m≦R≦27m						
		0~+350	_	10m≦R≦15m						
PRL1220	2/3W	±50		56m≦R≦100m				!		
		±100		47m≦R≦51m				E-24		
			_	20m≦R≦43m		_	1	1 m step		
		0~+200	_	10m≦R≦				(7m ~ 10m)		T5
PRL1632		0~+350 ±50			7m≦R≦9m		-			
		±100	56m≦R≦100m			_		E-24 1 m step		
	1 W	0 ~ +200	20m≦R≦51m 10m≦R≦18m							
		0 ~ +350	_	70111⊒N⊒170111 5m≦R≦9	Qm .	-		(5m ~ 10m)		
PRL3264	2W	±50	56m≦R≦100m					E-24	-55℃	
			47m≦R≦51m							
		±100	_	20m≦R≦43m		-		1m step (3m ~ 10m)	~ 125℃	
		0~+200	_	10m≦R≦18m			√(P · R)			
		0~+350	_	5m≦R≦9m		3m≦R≦4m	1 1 1	(0,		
RL3720W	1W	±50(Q)	-	100m≦R≦1		_		E-24 1m step (1m ~ 10m)		
		±100(R)								4,000pcs
		0 ~ +200(S)	_							
			_	5m≦R≦91m						
		0 ~ +350(T)	_							
		,		1 m≦R≦4m						
RL7520W	2W	±50(Q) ±100(R)	_	100m≦R≦470m		_		E-24 1m step (1m ~ 10m)		
				10m≦R≦91m						
		0~+200(S)	_	100m≦R≦470m						
		0 ~ +350(T)	_	10m≦R≦91m						
		0 ~ +420(T)			5m≦R≦9m					
		0 ~ +800(T)	_	1m≦R≦4m						

◆Dimensions

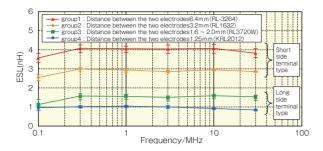


Туре	Size (inch)	L	w	а	b	t
PRL0816	0603	0.80±0.20	1.60±0.20	_	0.20±0.10	0.40±0.10
PRL1220	0805	1.25±0.20	2.00±0.20	_	0.35±0.15	0.50±0.10
PRL1632	1206	1.60±0.20	3.20±0.20	_	0.45±0.15	0.50±0.10
PRL3264	2512	3.20±0.20	6.40±0.20	_	0.90±0.15	0.50±0.10
RL3720W	1508	2.00±0.20	3.75±0.30	0.40±0.20	0.40+0.20	0.50±0.20
RL7520W	3008	2.00±0.20	7.50±0.30	0.40±0.20	0.40±0.20	0.50±0.20

(unit: mm)

SSM SUSUMU

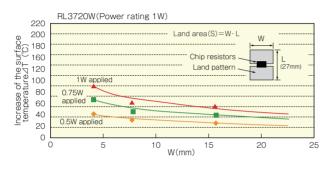
◆ESL (Equivalent series inductance)

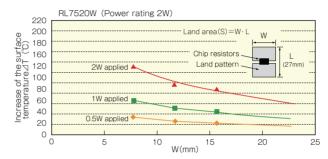


♦Surface temperature data

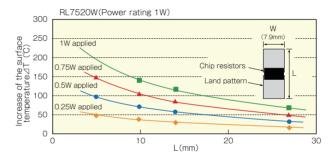
The high power type land pattern and surface temperature

These high-power low resistance chip resistors are designed to dissipate heat efficiently through the land patterns on circuit boards. The actual temperature of the surface of the resistor is dependent upon the dimensions and the shape of the land patterns.

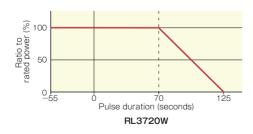


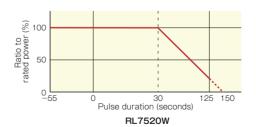




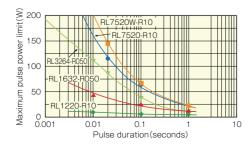


♦Derating Curve





◆Resistance to power pulse



Test procedure

Voltage pulse is applied to the test samples mounted on the test board.

After each pulse, resistance drift is measured. Pulse vol tage is increased until the drift exceeds +/-0.5%. The power at that voltage is defined as the maximum pulse power.

Mouser Electronics

Authorized Distributor

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Susumu:

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PRL1220-R007-G-T1 PRL1220-R008-G-T1 PRL1220-R009-G-T1 PRL3264-R003-J-T1 PRL3264-R004-J-T1
PRL3264-R005-G-T1 PRL3264-R006-G-T1 PRL3264-R007-G-T1 PRL3264-R008-G-T1 PRL3264-R009-G-T1
PRL1220-R043-F-T1 PRL1220-R010-F-T1 PRL3264-R012-F-T1 PRL1220-R091-F-T1 PRL0816-R033-F-T1
PRL1632-R020-F-T1 PRL3264-R043-F-T1 PRL1632-R016-F-T1 PRL0816-R047-F-T1 PRL1220-R075-F-T1
PRL0816-R010-F-T1 PRL0816-R100-F-T1 PRL1220-R100-F-T1 PRL0816-R025-F-T1 PRL3264-R009-F-T1
PRL1632-R012-F-T1 PRL1632-R006-F-T1 PRL1220-R051-F-T1 PRL3264-R047-F-T1 PRL3264-R062-F-T1
PRL0816-R043-F-T1 PRL1220-R033-F-T1 PRL0816-R027-F-T1 PRL1220-R018-F-T1 PRL1632-R036-F-T1
PRL3264-R039-F-T1 PRL0816-R082-F-T1 PRL0816-R018-F-T1 PRL3264-R025-F-T1 PRL1632-R047-F-T1
PRL0816-R091-F-T1 PRL0816-R012-F-T1 PRL1220-R012-F-T1 PRL3264-R033-F-T1 PRL1220-R039-F-T1
PRL3264-R051-F-T1 PRL1632-R030-F-T1 PRL3264-R027-F-T1 PRL1632-R056-F-T1 PRL3264-R010-F-T1
PRL1632-R011-F-T1 PRL3264-R091-F-T1
                                    PRL1632-R018-F-T1 PRL3264-R003-F-T1 PRL1632-R008-F-T1
PRL3264-R004-F-T1 PRL1220-R016-F-T1 PRL1220-R068-F-T1 PRL0816-R051-F-T1 PRL1632-R075-F-T1
PRL3264-R068-F-T1 PRL1220-R062-F-T1 PRL1632-R027-F-T1 PRL1220-R009-F-T1 PRL3264-R075-F-T1
PRL1632-R100-F-T1 PRL1220-R047-F-T1 PRL0816-R062-F-T1 PRL0816-R016-F-T1 PRL0816-R056-F-T1
PRL1220-R024-F-T1 PRL3264-R050-F-T1 PRL1632-R051-F-T1 PRL1220-R013-F-T1 PRL1632-R022-F-T1
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