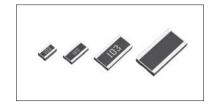


High Power Chip Resistors < Wide Terminal type >

LTR Series

Features

- 1) High joint reliability with long side terminations.
- 2) Highest power ratings in their class.
- 3) Guaranteed anti-surge characteristic in all series.
- 4) ROHM resistors have obtained ISO9001 / ISO / TS16949 certification.
- 5) Corresponds to AEC-Q200. (LTR18/50)



Products List

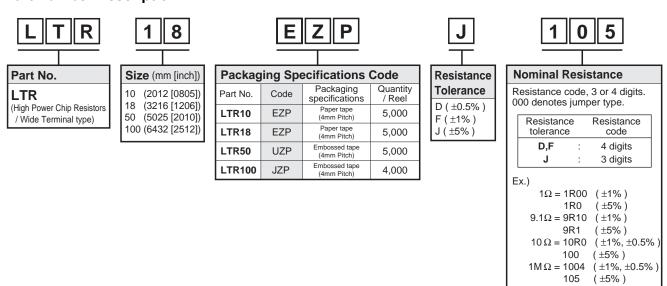
Part No.	Si	ze	Rated Power (70°C)	Limiting Element Voltage	Maximum Overload	Temperature Coefficient	Resistance Tolerance	Resistance	Range	Series	Operating Temperature
	(mm)	(inch)	(W)	(V)	Voltage (V)	(ppm / °C)	(%)		3		Range (°C)
						±200	J(±5%)	1Ω to	1ΜΩ		
LTR10	2012	0805	0.25	150	300	±100	F(±1%)	132 (0	110122		
						±100	D(±0.5%)	10Ω to	1ΜΩ		
						±200	J(±5%)	1Ω to	1ΜΩ	- E24	
LTR18	3216	1206	0.5 *	200	400	±100	F(±1%)	152 (0	110122		
						±100	D(±0.5%)	10Ω to	1ΜΩ		-55 to +155
						±200	J(±5%)	10 40	1ΜΩ		-55 (0 +155
LTR50	5025	2010	1	200	400	±100	F(±1%)	1Ω to	I IVIS 2		
						±100	D(±0.5%)	10Ω to	$1M\Omega$		
		6432 2512		200	400	±200	J(±5%)	40. (
LTR100	6432		2512 2			±100	F(±1%)	1Ω to	1ΜΩ		
						±100	D(±0.5%)	10Ω to	1ΜΩ		

^{*}Please contact ROHM sales representative for high power type.

Design and specifications are subject to change without notice.

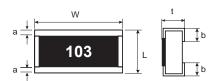
Carefully check the specification sheet supplied with the product before using or ordering it.

Part Number Description



LTR Series **Data Sheet**

Chip Resistor Dimensions and Markings

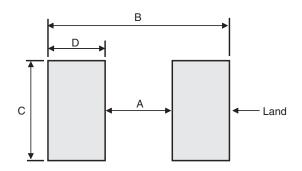


<Marking method>
There are three or four digits used for the calculation number according to IEC code and "R"is used for the decimal point.

(Unit:mm)

Part No.	(mm)	(inch)	L	W	t	а	b	Marking existence
LTR10	2012	0805	1.2±0.1	2.0±0.1	0.55±0.1	0.2±0.1	0.35±0.2	Yes
LTR18	3216	1206	1.6±0.15	3.2±0.15	0.55±0.1	0.3±0.2	0.5±0.2	Yes
LTR50	5025	2010	2.5±0.15	5.0±0.15	0.55±0.1	0.38±0.2	0.9±0.2	Yes
LTR100	6432	2512	3.2±0.15	6.4±0.15	0.55±0.15	0.4±0.25	1.13±0.25	No

●Land pattern Example



(Unit : mm)

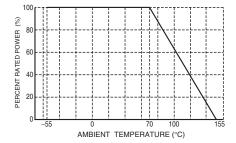
Dimensions Part No.	А	В	С	D
LTR10	0.50	2.70	2.00	1.10
LTR18	0.60	2.90	3.20	1.15
LTR50	0.75	3.35	5.00	1.30
LTR100	0.83	3.69	6.40	1.43

LTR Series Data Sheet

Derating Curve

When the ambient temperature exceeds 70°C, power dissipation must be adjusted according to the derating curves below.

■ LTR10 / 18 / 50 / 100



Characteristics

Test Items	Guaranteed Value	Test Conditions		
rest items	Resistor Type	- Test Conditions		
Resistance	See P.1	20°C		
Variation of resistance with temperature	See P.1	Measurement: +20 / -55 / +20 / +125°C		
Overload	± (2.0%+0.1Ω)	Rated voltage (current) ×2.5, 2s Maximum overload voltage		
Solderability	A new uniform coating of minimum of 95% of the surface being immersed and no soldering damage.	Rosin-Ethanol : 25% (Weight) Soldering condition : 235±5°C Duration of immersion : 2.0±0.5s		
Resistance to soldering heat	\pm (1.0%+0.05 Ω) No remarkable abnormality on the appearance.	Soldering condition : 260±5°C Duration of immersion : 10±1s		
Rapid change of temperature	± (1.0%+0.05Ω)	Test temp. : -55°C to +125°C 5cycle		
Damp heat, steady state	± (3.0%+0.1Ω)	40°C, 93%RH (Relative Humidity) Test time: 1,000h to 1,048h		
Endurance at 70°C	± (3.0%+0.1Ω)	70°C Rated voltage (current) 1.5h: ON – 0.5h: OFF Test time: 1,000h to 1,048h		
Endurance	± (3.0%+0.1Ω)	155°C Test time : 1,000h to 1,048h		
Resistance to solvent	± (1.0%+0.05Ω)	23±5°C, Immersion cleaning, 5±0.5min Solvent : 2–propanol		
Bend strength of the end face plating	\pm (1.0%+0.05 Ω) Without mechanical damage such as breaks.	_		
Static electric characteristics	± (5.0%+0.05Ω)	EIAJ ED-4701 / 300 TEST METHOD304 Voltage : 3kV C : 100pF R : 1.5k Ω Apply cycle : 1time		

Compliance Standard(s): IEC60115-8 JISC 5201-8

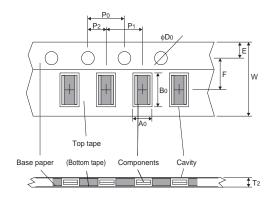
●Chip weight (typical value)

Parameter	Unit	LTR10	LTR18	LTR50	LTR100
Weight	mg/pc	5.58	10.02	24.18	38.15

LTR Series Data Sheet

●Tape Dimensions

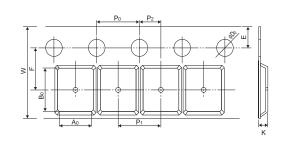
■ Paper Tape



					(Unit : mm)
Part No.	W	F	Е	A0	B0
LTR10	8.0±0.3	3.5±0.05	1.75±0.1	1.45±0.1	2.3±0.1
LTR18	8.0±0.3	3.5±0.05	1.75±0.1	1.95 ^{+0.1} _{-0.05}	3.5 ^{+0.15} _{-0.05}

Part No.	D0	P0	P1	P2	T2
LTR10	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
LTR18	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

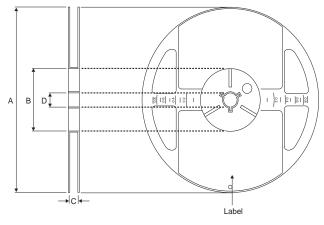
■ Embossed Tape



					(Unit : mm)
Part No.	W	F	E	A0	B0
LTR50	12.0±0.3	5.5±0.05	1.75±0.1	3.4±0.2	5.6±0.2
LTR100	12.0±0.3	5.5±0.05	1.75±0.1	3.5±0.2	6.7±0.2

Part No.	D0	Po	P1	P2	T2
LTR50	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1
LTR100	φ1.5 ^{+0.1} 0	4.0±0.1	4.0±0.1	2.0±0.05	Max 1.1

•Reel Dimensions



ACCORDING TO EIAJ ET-7200B

				(Unit : mm)	
Part No.	А	В	С	D	
LTR10			9 +1.0		
LTR18	φ180 0	φ60 +1.0	9 0	±12±0.2	
LTR50	^{φ180} –1.5	φου 0	13 +1.0	φ13±0.2	
LTR100			13 0		

Notes

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