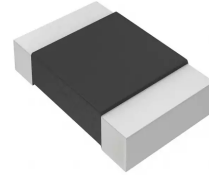
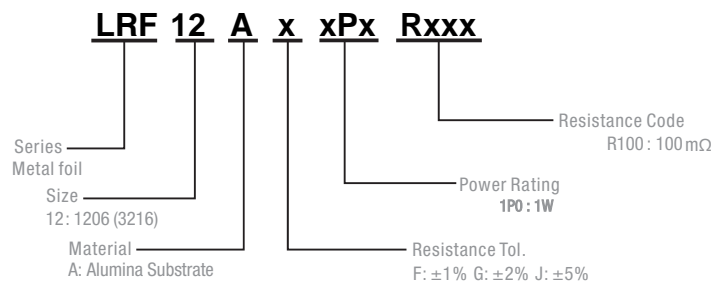


## Description

- Low Resistance and High Accuracy Resistor for Current Detection
- Large Electrode (All series)
- Good Performance for Heat Dissipation
- High Purity Alumina Substrate for High Power Dissipation
- Pb-free to Meet RoHS Requirements



## Part Numbering System



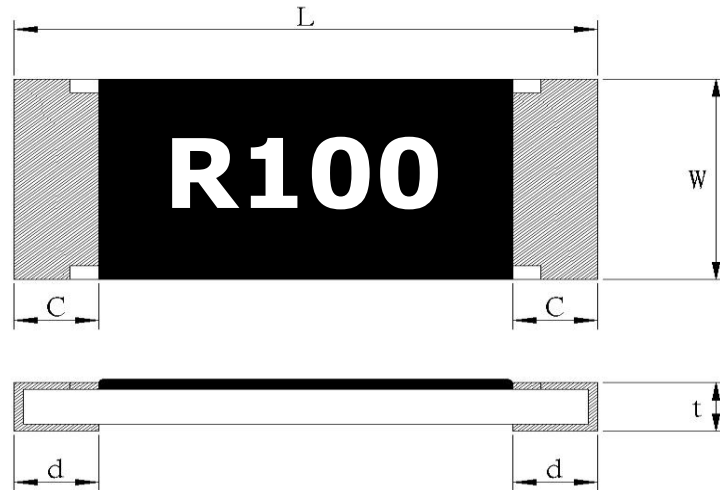
Parameter	Standard
Power Rating	1W
Resistance Value	100~910mΩ
Operating Temperature Range	-55 to +155°C
Component Temperature Coefficient (TCR)	± 100 ppm/°C
Maximum Working Voltage (V)	$(P \times R)^{1/2}$
Rating Current(A)	$(P / R)^{1/2}$

P=Power Rating; R=Resistance Value

## Standard Electrical Specifications

Type	Rating Power at 70°C	T.C.R. (ppm/°C)	Resistance Range(mΩ)	Operating Temperature(°C)
			1.0% (F) 2.0% (G) 5.0% (J)	
LRF12	1W	100	100-910	-55~+155°C

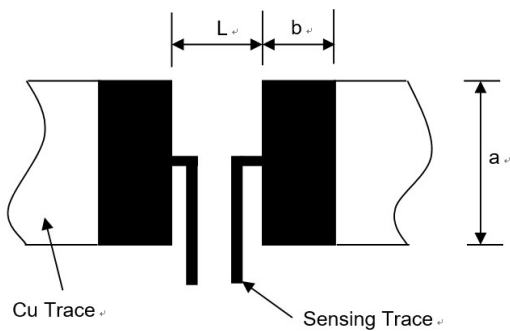
## Dimensions



Unit: Millimeters

Type	L	W	C	d	t
LRF 12	3.1±0.2	1.55±0.2	0.5±0.3	0.4±0.2	0.55±0.1

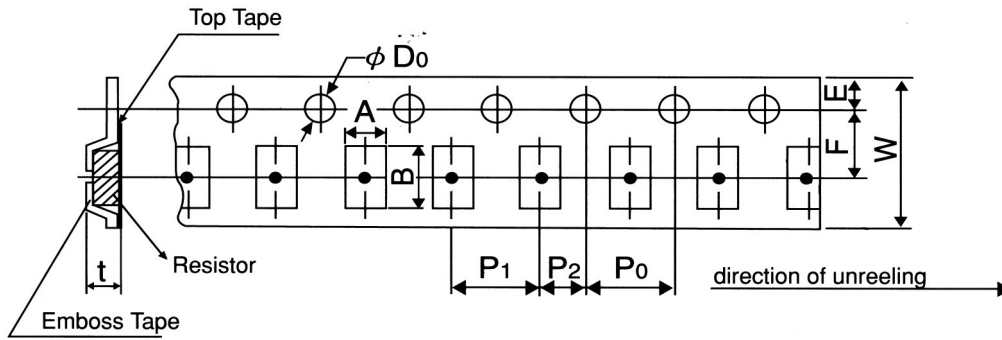
## Recommended land pattern



Unit: Millimeters

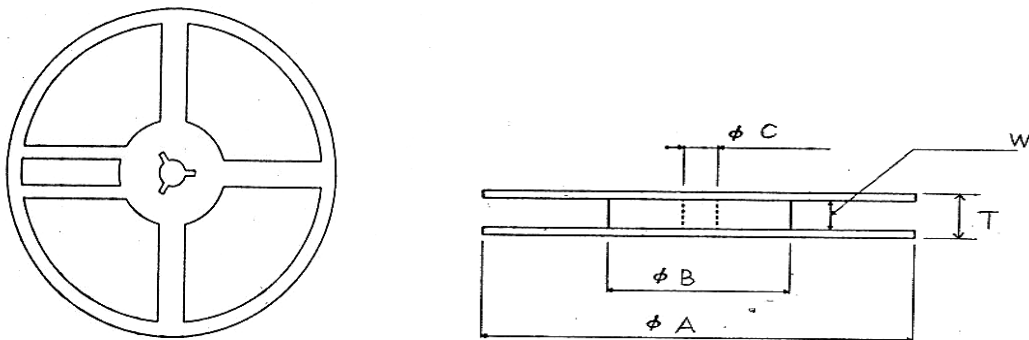
Type	a	b	L
LRF12	2.50±0.2	2.2±0.2	0.70±0.20

## Tapping & Package



Type	Pack	A $\pm 0.2$	B $\pm 0.2$	D0 $\pm 0.1$	E $\pm 0.1$	F $\pm 0.05$	P0 $\pm 0.1$	P1 $\pm 0.1$	P2 $\pm 0.1$	W $\pm 0.2$	T $\pm 0.1$
1206	Paper	2.00	3.60	1.50	1.75	3.50	4.00	4.00	2.00	8.00	0.84

## Reel Specification



Type	A	B	C	W	T
1206	178.00 $\pm 0.2$	60.00 $\pm 1.0$	13.00 $\pm 1.0$	9.00 $\pm 1.0$	11.40 $\pm 1.0$

## Derating Curve

For resistors operated at ambient temperature over 70°C, power rating shall be derated in accordance with figure 1.

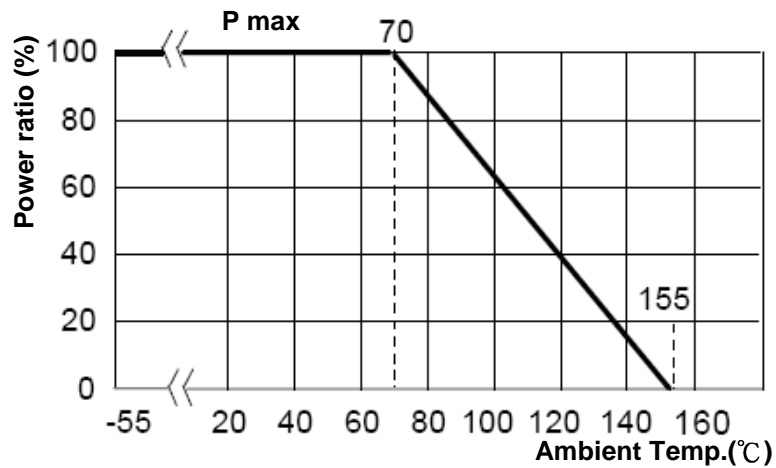


Figure 1

## Packaging

Quantity: 5, 000pcs

8mm wide tape on 178mm(7 inch)  
diameter reel -specification EIA  
Standard 481.