

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD90P SERIES
(REFER TABLE)

RoHS



1. Summary

- (a) RoHS Complaint (Lead Free) Product
- (b) Application: Telecom & wide variety of electronic equipment.
- (c) Product Features: Low hold current, Solid state, Radial leaded product ideal for up to 90V
- (d) Operation Current: 100mA to 3.75A
- (e) Maximum Voltage: Up to 90V
- (f) Temperature Range: -40°C to 85°C

2. Electrical Characteristics (23°C)

PART NUMBER	HOLD CURRENT $I_{h,a}$	TRIP CURRENT $I_{t,a}$	MAX. TIME TO TRIP t_{5xI_h}	MAX. CURRENT $I_{max,A}$	RATED VOLTAGE $V_{max,Vdc}$	TYPICAL POWER P_d,W	RESISTANCE TOLERANCE	
							Rmin. ohms	R1max. ohms
RLD90P010X	0.10	0.20	4.0	40	72/90	0.38	2.50	7.50
RLD90P015X	0.15	0.35	10.0	40	72/90	0.70	2.40	7.00
RLD90P017X	0.17	0.34	3.0	40	72/90	0.48	2.00	5.00
RLD90P020X	0.20	0.40	2.2	40	72/90	0.41	1.83	4.40
RLD90P025X	0.25	0.50	2.5	40	72/90	0.45	1.25	3.00
RLD90P030X	0.30	0.60	3.0	40	72/90	0.49	0.88	2.10
RLD90P035X	0.35	0.75	10.0	40	72/90	1.30	0.70	2.50
RLD90P040X	0.40	0.80	3.8	40	72/90	0.56	0.55	1.29
RLD90P050X	0.50	1.00	4.0	40	72/90	0.77	0.50	1.17
RLD90P055X	0.55	1.20	10.0	40	72/90	1.50	0.40	1.50
RLD90P065X	0.65	1.30	5.3	40	72/90	0.88	0.31	0.72
RLD90P075X	0.75	1.50	6.3	40	72/90	0.92	0.25	0.60
RLD90P090X	0.90	1.80	7.2	40	72/90	0.99	0.20	0.47
RLD90P0110X	1.10	2.20	8.2	40	72/90	1.50	0.15	0.38
RLD90P0135X	1.35	2.70	9.6	40	72/90	1.70	0.12	0.30
RLD90P0160X	1.60	3.20	11.4	40	72/90	1.90	0.09	0.22
RLD90P0185X	1.85	3.70	12.6	40	72/90	2.10	0.08	0.19
RLD90P0250X	2.50	5.00	15.6	40	72/90	2.50	0.05	0.13
RLD90P0300X	3.00	6.00	19.8	40	72/90	2.80	0.04	0.10
RLD90P0375X	3.75	7.50	24.0	40	72/90	3.20	0.03	0.08

DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD90P SERIES
(REFER TABLE)

I_h= Hold current—maximum current at which the device will not trip at 23°C still air.

I_t= Trip current—minimum current at which the device will always trip at 23°C still air.

V_{max}= Maximum voltage device can withstand without damage at its rated current.

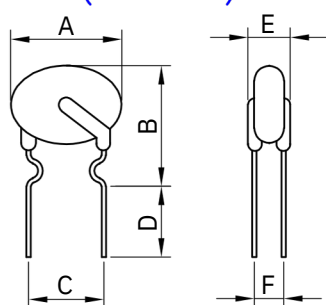
I_{max}= Maximum fault current device can withstand without damage at rated voltage (V max.).

P_d= Typical power dissipated from device when in tripped state in 23°C still air environment.

R_{min}= Minimum device resistance at 23°C.

R_{1 max}= Maximum device resistance at 23°C, 1 hour after tripping.

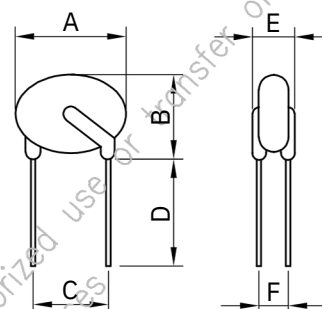
3 Product Dimensions (millimeter):



RLD90P010X ~ RLD90P090X

Lead Size : 24AWG

∅ 0.51mm



RLD90P110X ~ RLD90P375X

Lead Size : 20AWG

∅ 0.81mm

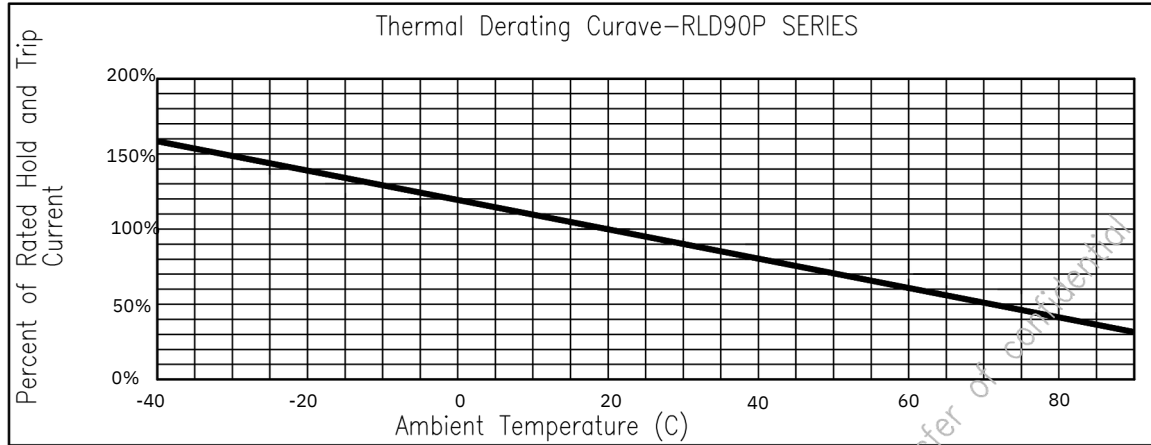
PART NUMBER	A	B	Typical	D	E	F
	Maximum	Maximum		Minimum	Maximum	Typical
RLD90P010X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P015X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P017X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P020X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P025X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P030X	7.4	13.0	5.1	7.6	3.1	1.1
RLD90P035X	7.4	12.7	5.1	7.6	3.1	1.1
RLD90P040X	7.6	13.5	5.1	7.6	3.1	1.1
RLD90P050X	7.9	13.7	5.1	7.6	3.1	1.1
RLD90P055X	9.7	14.0	5.1	7.6	3.1	1.1
RLD90P065X	9.7	14.5	5.1	7.6	3.1	1.1
RLD90P075X	10.4	15.2	5.1	7.6	3.1	1.1
RLD90P090X	11.7	15.8	5.1	7.6	3.1	1.1
RLD90P0110X	13.0	18.0	5.1	7.6	3.1	1.4
RLD90P0135X	14.5	19.6	5.1	7.6	3.1	1.4
RLD90P0160X	16.3	21.3	5.1	7.6	3.1	1.4
RLD90P0185X	17.8	22.9	5.1	7.6	3.1	1.4
RLD90P0250X	21.3	26.4	10.2	7.6	3.1	1.4
RLD90P0300X	24.9	30.0	10.2	7.6	3.1	1.4
RLD90P0375X	28.5	33.5	10.2	7.6	3.1	1.4



DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD90P SERIES
(REFER TABLE)

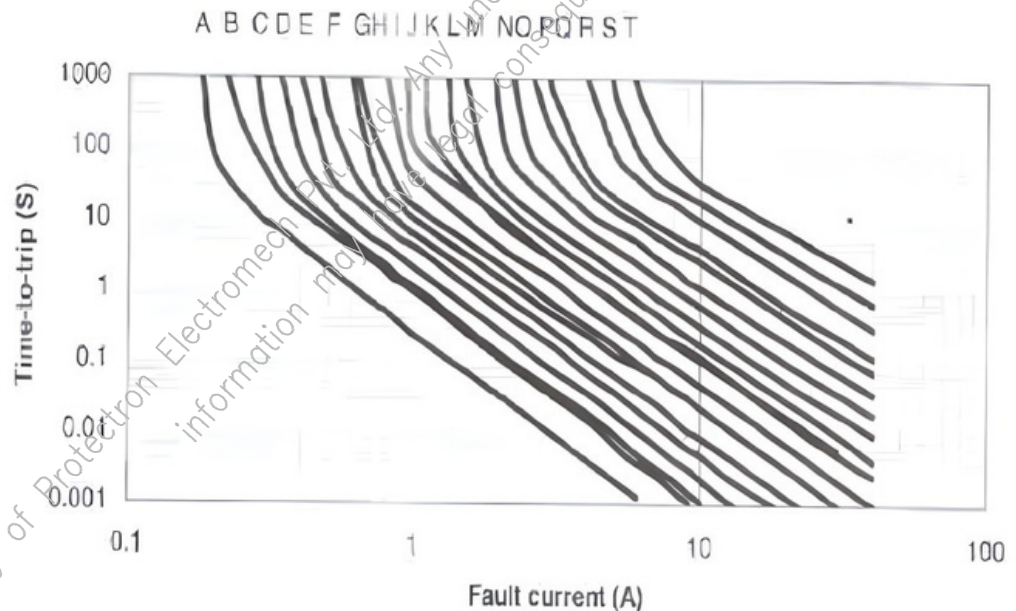
4. Thermal Derating Curve :



NOTE : Specification subject to change without notice.

5. Typical Time-To-Trip at 23°C

A= RLD90P010X
B= RLD90P015X
C= RLD90P017X
D= RLD90P020X
E= RLD90P025X
F= RLD90P030X
G= RLD90P035X
H= RLD90P040X
I= RLD90P050X
J= RLD90P055X
K= RLD90P065X
L= RLD90P075X
M= RLD90P090X
N= RLD90P0110X
O= RLD90P0135X
P= RLD90P0160X
Q= RLD90P0185X
R= RLD90P0250X
S= RLD90P0300X
T= RLD90P0375X





DESCRIPTION : RADIAL LEADED PTC RESETTABLE FUSE

PART NO: RLD90P SERIES
(REFER TABLE)

6. Material Specification :

Lead Material : RLD90P010X ~ RLD90P90X Tin plated copper, 24 AWG.

RLD90P110X ~ RLD90P375X Tin plated copper, 20 AWG.

Soldering characteristics : MIL-STD-202, Method 208E.

Insulating coating : Flame retardant epoxy, meets UL-94V-0 requirement.

Warning :—Operations beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.



—PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.

Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.

ORDERING INFORMATION

RLD90P SERIES
(REFER TABLE)

Projection:



Scale: **NTS**

Sht. Size: **A4**

Gen. Tol.: $\pm 0.5\text{mm}$
 $\pm 1^\circ$

ALL DIMENSIONS ARE IN MM.
IF UNLESS OTHERWISE SPECIFIED.