RX 90V Series

Radial Leaded PTC

LEAD FREE
RoSH COMPLIANT

Application:	Telecom and wide variety of electronic equipment (upgrade from 60V RX).
Product Features:	Low hold current, Solid state, Radial leaded product ideal for up to 90V
Operation Current:	100mA~3.75A
Maximum Voltage:	Up to 90V
Temperature Range:	-40°C to 85°C
Agency Recognition:	UL, C-UL, TÜV

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Max.Time to Trip	Maximum Current	Rated Voltage	Typical Power	Resistance Tolerance	
							RMIN	R1MAX
	IH, A	IT, A	at 5xIH	IMAX, A	VMAX,VDC	Pd, W	ohms	ohms
RX010-90	0.10	0.20	4.00	40	72/90	0.38	2.50	7.50
RX015-90	0.15	0.35	10.00	40	72/90	0.70	2.40	7.00
RX017-90	0.17	0.34	3.00	40	72/90	0.48	2.00	5.00
RX020-90	0.20	0.40	2.20	40	72/90	0.41	1.83	4.40
RX025-90	0.25	0.50	2.50	40	72/90	0.45	1.25	3.00
RX030-90	0.30	0.60	3.00	40	72/90	0.49	0.88	2.10
RX035-90	0.35	0.75	10.0	40	72/90	1.30	0.70	2.50
RX040-90	0.40	0.80	3.80	40	72/90	0.56	0.55	1.29
RX050-90	0.50	1.00	4.00	40	72/90	0.77	0.50	1.17
RX055-90	0.55	1.20	10.0	40	72/90	1.50	0.40	1.50
RX065-90	0.65	1.30	5.30	40	72/90	0.88	0.31	0.72
RX075-90	0.75	1.50	6.30	40	72/90	0.92	0.25	0.60
RX090-90	0.90	1.80	7.20	40	72/90	0.99	0.20	0.47
RX110-90	1.10	2.20	8.20	40	72/90	1.50	0.15	0.38
RX135-90	1.35	2.70	9.60	40	72/90	1.70	0.12	0.30
RX160-90	1.60	3.20	11.40	40	72/90	1.90	0.09	0.22
RX185-90	1.85	3.70	12.60	40	72/90	2.10	0.08	0.19
RX250-90	2.50	5.00	15.60	40	72/90	2.50	0.05	0.13
RX300-90	3.00	6.00	19.80	40	72/90	2.80	0.04	0.10
RX375-90	3.75	7.50	24.00	40	72/90	3.20	0.03	0.08

IH=Hold current-maximum current at which the device will not trip at 23°C still air.
IT=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).
Pd=Typical power dissipated from device when in the tripped state in 23°C still air environment.
RMIN=Minimum device resistance at 23°C.
R1MAX=Maximum device resistance at 23°C, 1 hour after tripping .
Physical specifications:
Lead material: RX010~RX090 Tin plated copper, 24 AWG.
RX110~RX375 Tin plated copper, 20 AWG.
Soldering characteristics: MIL-STD-202, Method 208E.
Insulating coating:Flame retardant epoxy, meet UL-94V-0 requirement.

RX 90V Series
Radial Leaded PTC

RX Product Dimensions (Millimeters)

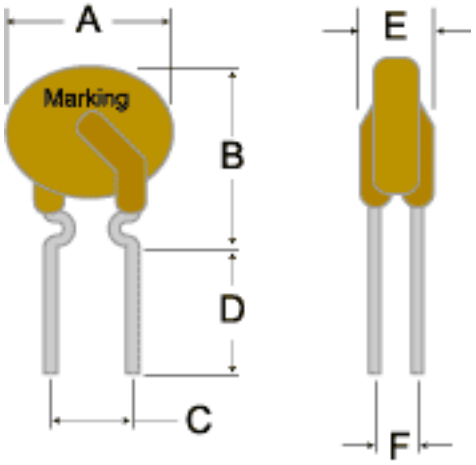


Figure 1
RX010-90 ~ RX090-90
Lead Size :24AWG,
Ø 0.51 mm Diameter

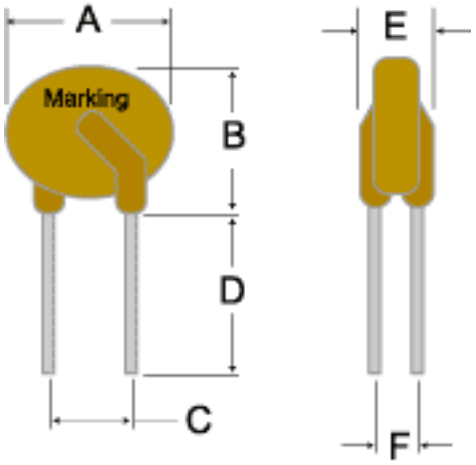
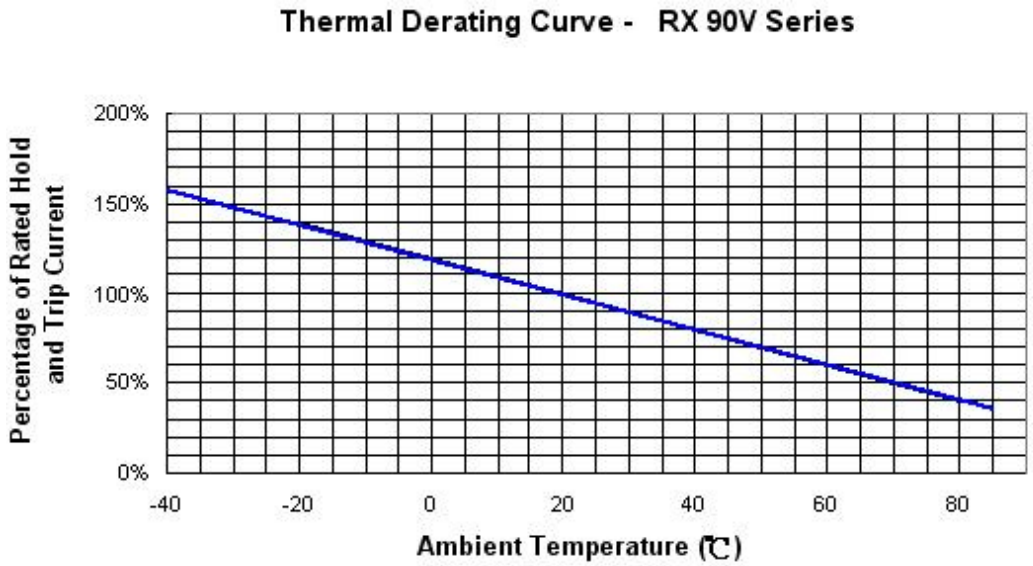


Figure 2
RX110-90 ~ RX375-90
Lead Size : 20AWG,
Ø 0.81 mm Diameter

Part Number	Figure	A	B	C	D	E	F
		Maximum	Maximum	Typical	Minimum	Maximum	Typical
RX010-90	1	7.4	12.7	5.1	7.6	3.1	1.1
RX015-90	1	7.4	12.7	5.1	7.6	3.1	1.1
RX017-90	1	7.4	12.7	5.1	7.6	3.1	1.1
RX020-90	1	7.4	12.7	5.1	7.6	3.1	1.1
RX025-90	1	7.4	12.7	5.1	7.6	3.1	1.1
RX030-90	1	7.4	13.0	5.1	7.6	3.1	1.1
RX035-90	1	7.4	12.7	5.1	7.6	3.1	1.1
RX040-90	1	7.6	13.5	5.1	7.6	3.1	1.1
RX050-90	1	7.9	13.7	5.1	7.6	3.1	1.1
RX055-90	1	9.7	14.0	5.1	7.6	3.1	1.1
RX065-90	1	9.7	14.5	5.1	7.6	3.1	1.1
RX075-90	1	10.4	15.2	5.1	7.6	3.1	1.1
RX090-90	1	11.7	15.8	5.1	7.6	3.1	1.1
RX110-90	2	13.0	18.0	5.1	7.6	3.1	1.4
RX135-90	2	14.5	19.6	5.1	7.6	3.1	1.4
RX160-90	2	16.3	21.3	5.1	7.6	3.1	1.4
RX185-90	2	17.8	22.9	5.1	7.6	3.1	1.4
RX250-90	2	21.3	26.4	10.2	7.6	3.1	1.4
RX300-90	2	24.9	30.0	10.2	7.6	3.1	1.4
RX375-90	2	28.5	33.5	10.2	7.6	3.1	1.4

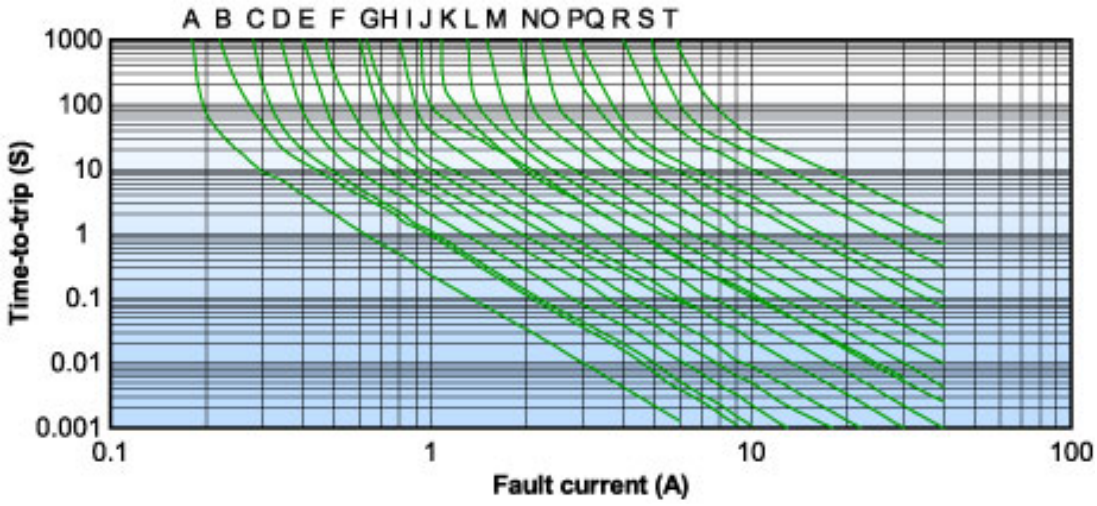
RX 90V Series
Radial Leaded PTC

Thermal Derating Curve



Typical Time-To-Trip at 23°C

A = RX010-90
B = RX015-90
C = RX017-90
D = RX020-90
E = RX025-90
F = RX030-90
G = RX035-90
H = RX040-90
I = RX050-90
J = RX055-90
K= RX065-90
L = RX070-90
M= RX090-90
N = RX110-90
O = RX135-90
P = RX160-90
Q = RX185-90
R= RX250-90
S = RX300-90
T = RX375-90



Part Numbering System

RX ___ - ___

- Nil : Bulk
  T : Tape & Reel
- Voltage Rating
- Current Rating

RX110F
34AA
Example

Part Marking System

RX ___ F

- PB-Free / RoHs Compliant
- Part Identification
- Product Family

___ ___

- Data Code/Lot Number

RX 90V Series
Radial Leaded PTC

Standard Package

P/N	Pcs /Bag	Reel/Tape
RX010-90	500	3K
RX015-90	500	3K
RX017-90	500	3K
RX020-90	500	3K
RX025-90	500	3K
RX030-90	500	3K
RX035-90	500	3K
RX040-90	500	3K
RX050-90	500	3K
RX055-90	300	3K
RX065-90	300	3K
RX075-90	300	3K
RX090-90	300	1.5K
RX110-90	200	1.5K
RX135-90	200	1.5K
RX160-90	200	1.5K
RX185-90	200	1.5K
RX250-90	100	800
RX300-90	100	600
RX375-90	100	600

1- Operation beyond the specified maximum ratings or improper use may result in damage and possible electrical arcing and/or flame.
2 -PPTC device are intended for occasional overcurrent protection. Application for repeated overcurrent condition and/or prolonged trip are not anticipated.
3- Avoid contact of PPTC device with chemical solvent. Prolonged contact will damage the device performance.