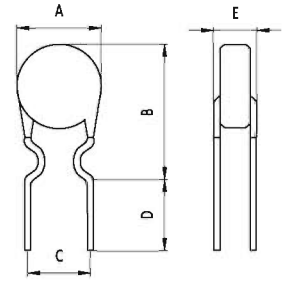


Type R60 Series RoHS Pb

Polymeric Positive Temperature Coefficient

(PPTC)



Approvals

UL Recognized 0.1A~3.75A
 CSA 0.1A~3.75A
 TUV 0.1A~3.75A

Agency File Numbers

UL E201504
 CSA 216999
 TUV B 02 11 43486

Electrical Characteristics

Operating/Storage Temperature
 -40°C to +85°C

Maximum Device Surface Temperature
 In Tripped State 125°C

Passive Aging
 +85°C, 1000Hours, ±5% Typical Resistance Change

Humidity Aging
 +85°C, 85%R.H., 1000Hours, ±5% Typical Resistance Change

Thermal Shock:
 +85°C to -40°C, ±10% Typical Resistance Change

Vibration
 MIL-STD-202C, Method 201, No Change

Physical Characteristics

Materials
 R60-010: Tin-plated nickel-copper alloy, 0.205mm² (24AWG), ø0.51mm(0.020 in).
 R60-017~040: Tin-plated copper-clad steel, 0.205mm² (24AWG), ø0.51mm(0.020 in).
 R60-050~090: Tin-plated copper, 0.205mm² (24AWG), ø0.51mm(0.020 in).
 R60-110 ~ 375: Tin-plated copper, 0.52mm² (20AWG), ø0.81mm(0.032 in).

Physical Dimensions (Unit: mm/inch)

Model	A Max.	B Max.	C Typ.	D Min.	E Max.	F Max.	Lead Style
R60-010	7.4/0.29	12.7/0.50	5.1/0.20	7.6/0.3	3.1/0.12	1.0/0.04	Kink
R60-017	7.4/0.29	12.7/0.50	5.1/0.20	7.6/0.3	3.1/0.12	1.7/0.07	Kink
R60-020	7.4/0.29	12.7/0.50	5.1/0.20	7.6/0.3	3.1/0.12	1.0/0.04	Kink
R60-025	7.4/0.29	12.7/0.50	5.1/0.20	7.6/0.3	3.1/0.12	1.0/0.04	Kink
R60-030	7.4/0.29	13.0/0.51	5.1/0.20	7.6/0.3	3.1/0.12	1.0/0.04	Kink
R60-040	7.6/0.30	13.5/0.53	5.1/0.20	7.6/0.3	3.1/0.12	1.2/0.05	Kink
R60-050	7.9/0.31	13.7/0.54	5.1/0.20	7.6/0.3	3.1/0.12	1.2/0.05	Kink
R60-065	9.7/0.38	14.5/0.57	5.1/0.20	7.6/0.3	3.1/0.12	1.5/0.06	Kink
R60-075	10.4/0.41	15.2/0.60	5.1/0.20	7.6/0.3	3.1/0.12	1.5/0.06	Kink
R60-090	11.7/0.46	15.8/0.62	5.1/0.20	7.6/0.3	3.1/0.12	1.5/0.06	Kink
R60-110	13.0/0.51	18.0/0.71	5.1/0.20	7.6/0.3	3.1/0.12	1.2/0.05	Straight
R60-135	14.5/0.57	19.6/0.77	5.1/0.20	7.6/0.3	3.1/0.12	1.2/0.05	Straight
R60-160	16.3/0.64	21.3/0.84	5.1/0.20	7.6/0.3	3.1/0.12	1.5/0.06	Straight
R60-185	17.8/0.70	22.9/0.90	5.1/0.20	7.6/0.3	3.1/0.12	1.5/0.06	Straight
R60-250	21.3/0.84	26.4/1.04	10.2/0.40	7.6/0.3	3.1/0.12	1.7/0.07	Straight
R60-300	24.9/0.98	30.0/1.18	10.2/0.40	7.6/0.3	3.1/0.12	2.0/0.08	Straight
R60-375	28.5/1.12	33.5/1.32	10.2/0.40	7.6/0.3	3.1/0.12	2.0/0.08	Straight

Packaging

In Bulk: 500 pcs per box.
 On Tap: Ammo pack
 R60-010~R60-090 3000 PCS, R60-110~R60-185 1500 PCS
 R60-017 2500 PCS, R60-250~R60-375 -

Electrical Properties

Model	I _{hold} (A)	I _{trip} (A)	V _{max} (Vdc)	I _{max} (A)	P _d Typ. (W)	Maximum Time To Trip		Resistance		
						Current (A)	Time (Sec)	R _{imin} (Ω)	R _{imax} (Ω)	R _{1max} (Ω)
R60-010	0.10	0.20	60	40	0.38	0.50	4.0	2.50	4.50	7.50
R60-017	0.17	0.34	60	40	0.48	0.85	3.0	2.50	5.21	8.00
R60-020	0.20	0.40	60	40	0.41	1.00	2.2	1.83	2.75	4.40
R60-025	0.25	0.50	60	40	0.45	1.25	2.5	1.00	1.95	3.00
R60-030	0.30	0.60	60	40	0.49	1.50	3.0	0.88	1.33	2.10
R60-040	0.40	0.80	60	40	0.56	2.00	3.8	0.55	0.86	1.29
R60-050	0.50	1.00	60	40	0.77	2.50	4.0	0.50	0.77	1.17
R60-065	0.65	1.30	60	40	0.88	3.25	5.3	0.31	0.48	0.72
R60-075	0.75	1.50	60	40	0.92	3.75	6.3	0.25	0.40	0.60
R60-090	0.90	1.80	60	40	0.99	4.50	7.2	0.20	0.31	0.47
R60-110	1.10	2.20	60	40	1.50	5.50	8.2	0.15	0.25	0.38
R60-135	1.35	2.70	60	40	1.70	6.75	9.6	0.12	0.19	0.30
R60-160	1.60	3.20	60	40	1.90	8.00	11.4	0.09	0.14	0.22
R60-185	1.85	3.70	60	40	2.10	9.25	12.6	0.08	0.12	0.19
R60-250	2.50	5.00	60	40	2.50	12.50	15.6	0.05	0.08	0.13
R60-300	3.00	6.00	60	40	2.80	15.00	19.8	0.04	0.06	0.10
R60-375	3.75	7.50	60	40	3.20	18.75	24.0	0.03	0.05	0.08

I_{hold} = Hold Current : maximum current device will sustain for 4 hours without tripping in 25°C XC still air.

I_{trip} = Trip Current : minimum current at which the device will trip in 25°C XC still air.

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

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

P_d = Power dissipated from device when in the tripped state at 25°C XC still air.

R_{imin}/max = Minimum/Maximum resistance of device in initial (un-soldered) state.

R_{1max} = Maximum resistance of device at 25°C XC measured one hour after tripping.

CAUTION : Operation beyond the specified ratings may result in damage and possible arcing and flame.