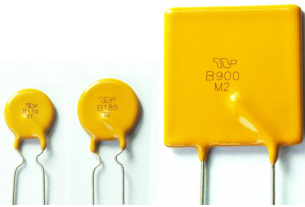


# III- TRB(30V) Series



### Features

- ◆ Radial Leaded Devices
- ◆ Cured, flame retardant epoxy polymer insulating material meets UL 94V-0 requirements
- ◆ Bulk Package, or tape and reel available on most models
- ◆ Agency recognition: TUV On Approval

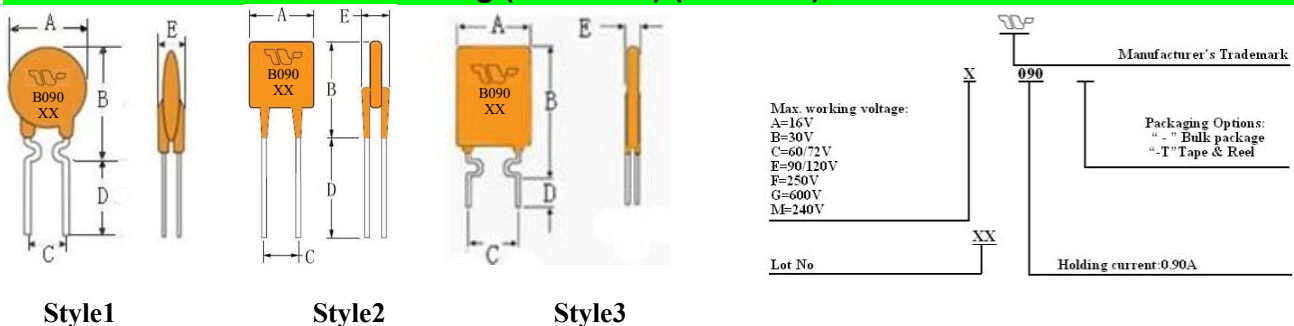
### Applications

- Almost anywhere there is a low voltage power supply, up to 30V and a load to be protected, including:
- ◆ Personal computer
  - ◆ Toys
  - ◆ Industrial controls

## Electrical Characteristics (电气特性):

P/N	保持电流	跳脱电流	最大电压	最大电流	最大动作时间		消耗功率	电阻范围(Ω)		
	$I_H$ (A)	$I_T$ (A)	$V_{max}$ (V)	$I_{max}$ (A)	(A)	(Sec.)	$P_{d\ typ.}$ (W)	$R_{min}$	$R_{max}$	$R1_{max}$
TRB050	0.50	1.00	30	40	2.50	4.0	0.75	0.50	0.79	1.20
TRB090	0.90	1.80	30	40	4.50	5.9	0.60	0.090	0.230	0.300
TRB110	1.10	2.20	30	40	5.50	6.6	0.70	0.060	0.160	0.260
TRB120	1.20	2.40	30	40	6.00	6.5	0.70	0.050	0.115	0.255
TRB135	1.35	2.70	30	40	6.75	7.3	0.80	0.040	0.095	0.170
TRB160	1.60	3.20	30	40	8.00	8.0	0.90	0.030	0.095	0.160
TRB185	1.85	3.70	30	40	9.25	8.7	1.00	0.030	0.070	0.110
TRB200	2.00	4.00	30	40	8.00	8.7	1.00	0.020	0.050	0.110
TRB220	2.20	4.40	30	40	11.0	8.7	1.00	0.020	0.070	0.110
TRB250	2.50	5.00	30	40	12.5	10.3	1.20	0.020	0.048	0.072
TRB300	3.00	6.00	30	40	15.0	10.8	2.00	0.015	0.050	0.075
TRB400	4.00	8.00	30	40	20.0	12.7	2.50	0.010	0.030	0.045
TRB500	5.00	10.00	30	40	25.0	14.5	3.00	0.008	0.025	0.045
TRB600	6.00	12.00	30	100	30.0	16.0	3.50	0.005	0.020	0.030
TRB700	7.00	14.00	30	100	35.0	17.5	3.80	0.003	0.016	0.025
TRB800	8.00	16.00	30	100	40.0	18.8	4.00	0.004	0.015	0.023
TRB900	9.00	18.00	30	100	40.0	20.0	4.00	0.004	0.010	0.015
TRB1100	11.00	22.00	30	40	55.0	20.0	4.00	0.003	0.006	0.015
TRB1200	12.00	24.00	30	40	60.0	20.0	4.0	0.002	0.010	0.013

## Product Dimensions & Marking (Unit: mm) (产品尺寸):



Style1

Style2

Style3

P/N	A	B	C	D	E	Physical Characteristics(物理特性)		
	Max.(最大)	Max.(最大)	Typ.(标准)	Min.(最小)	Max.(最大)	Style(样式)	Lead Φ mm	Material(材料)
TRB050	9.7	15.2	5.1	7.6	3.1	1	0.5	CP
TRB090	7.4	14.0	5.1	7.6	3.1	3	0.50	CP
TRB110	10.7	16.7	5.1	7.6	3.1	1	0.50	CP
TRB120	10.7	16.7	5.1	7.6	3.1	1	0.50	CP
TRB135	10.7	16.7	5.1	7.6	3.1	1	0.50	CP
TRB160	11.0	16.8	5.1	7.6	3.1	1	0.60	CU
TRB185	11.5	17.9	5.1	7.6	3.1	1	0.60	CU

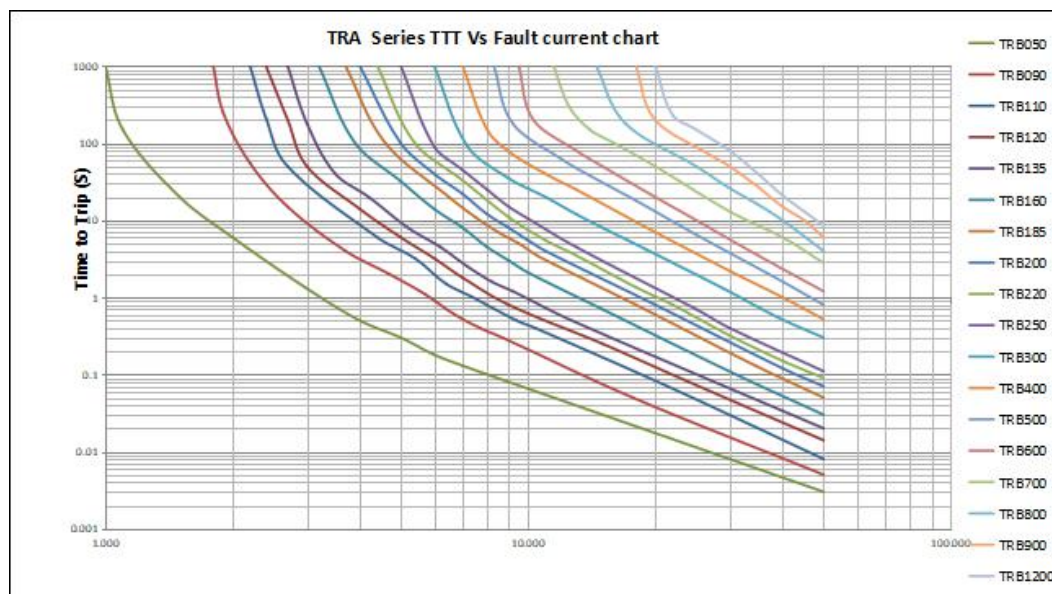
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TRB200	13.0	18.3	5.1	7.6	3.1	3	0.60	CU
TRB220	13.0	18.3	5.1	7.6	3.1	3	0.60	CU
TRB250	13.0	18.3	5.1	7.6	3.1	2	0.60	CU
TRB300	13.0	18.3	5.1	7.6	3.1	2	0.81	CU
TRB400	16.4	24.8	5.1	7.6	3.1	2	0.81	CU
TRB500	21.3	26.4	10.2	7.6	3.1	2	0.81	CU
TRB600	20.8	29.8	10.2	7.6	3.1	2	0.81	CU
TRB700	20.8	29.8	10.2	7.6	3.1	2	0.81	CU
TRB800	24.2	32.9	10.2	7.6	3.1	2	0.81	CU
TRB900	24.2	32.9	10.2	7.6	T3.1	2	0.81	CU
TRB1100	20.8	29.8	10.2	7.6	3.1	2	0.81	CU
TRB1200	20.8	29.8	10.2	7.6	3.1	2	0.81	CU

## Thermal Derating Chart – I<sub>hold</sub> (Amps) (环境温度与工作电流关系特性曲线)

P/N	Ambient Operating Temperature(工作环境温度)								
	-40°C	-20°C	0°C	25°C	40°C	50°C	60°C	70°C	85°C
TRB050	0.78	0.68	0.60	0.50	0.41	0.36	0.32	0.27	0.20
TRB090	1.40	1.22	1.07	0.90	0.73	0.65	0.57	0.49	0.36
TRB110	1.60	1.43	1.27	1.10	0.91	0.85	0.75	0.67	0.57
TRB120	1.75	1.56	1.39	1.20	0.99	0.93	0.82	0.73	0.62
TRB135	1.96	1.76	1.55	1.35	1.12	1.04	0.92	0.82	0.70
TRB160	2.32	2.08	1.84	1.60	1.33	1.23	1.09	0.98	0.83
TRB185	2.68	2.41	2.13	1.85	1.54	1.42	1.26	1.13	0.96
TRB200	2.90	2.60	2.30	2.00	1.65	1.55	1.40	1.20	1.00
TRB220	2.90	2.60	2.30	2.00	1.65	1.55	1.40	1.20	1.00
TRB250	3.63	3.25	2.88	2.50	2.08	1.93	1.70	1.53	1.30
TRB300	4.35	3.90	3.45	3.00	2.49	2.31	2.04	1.83	1.56
TRB400	5.80	5.20	4.60	4.00	3.32	3.08	2.72	2.44	2.08
TRB500	7.25	6.50	5.75	5.00	4.15	3.85	3.40	3.05	2.60
TRB600	8.70	7.80	6.90	6.00	4.98	4.62	4.08	3.66	3.12
TRB700	10.10	9.10	8.05	7.00	5.81	5.39	4.76	4.27	3.64
TRB800	11.60	10.40	9.20	8.00	6.64	6.16	5.44	4.88	4.16
TRB900	13.00	11.70	10.30	9.00	7.47	6.93	6.12	5.49	4.68
TRB1100	17.20	15.00	13.10	11.00	9.00	7.83	6.90	6.00	4.50
TRB1200	15.89	18.80	16.30	14.20	9.80	8.50	7.50	6.50	4.80

## Typical time to trip at 25°C (25°C下的动作保护时间曲线表):



The Time to Trip curves represent typical performance of a device in a simulated application environment. Actual performance in specific customer applications may differ from these values due to the influence of other variables.

## Agency Approvals (安规认证):

- Agency Approvals: TUV
- Regulation/Standard: RoHS, Reach, HF

## Package information (包装信息):

Model	Q'ty/bag
TRB090-TRB220	1000 pcs
TRB250-TRB400	500 pcs
TRB500-TRB1200	200 pcs

- Tape and Reel Specifications
- Devices taped using EIA468-B/IEC286-2 standards.