

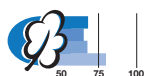
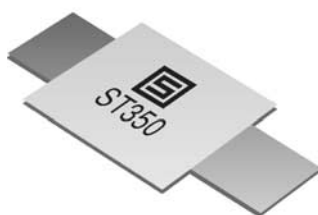
Axial leaded PTC-Fuses Type PFST

Fully compatible with current industry standards
Weldable nickel terminals

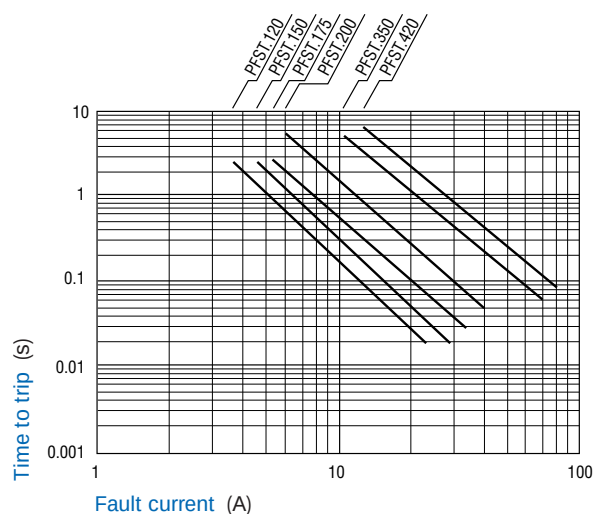
Very low internal resistance

Available in lead-free version

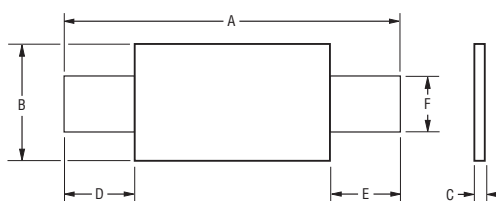
Agency recognition:
UL, CSA, TÜV



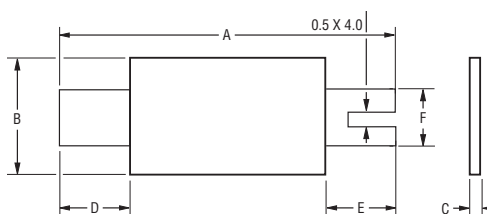
Typical Time to Trip at 23 °C



Standard Style



"S" Style



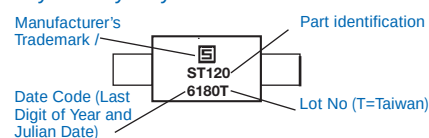
Terminal material: Quarter hard nickel

Applications

- Rechargeable battery pack protection
- Cellular phones

Typical Part Marking

Layout may vary



Environmental Characteristics

Operating/Storage Temperature	-40 °C to +85 °C
Maximum Device Surface Temperature in Tripped State	125°C

Passive Aging	+85 °C, 1000 hours	±5% typ. resist. change
Humidity Aging	+85 °C, 85% R.H. 1000 hours	±5% typ. resist. change
Thermal Shock	+85 °C/-40 °C 10 times	±10% typ. resist. change
Vibration	MIL-STD-883C, Method 2007.1, Condition A	No change

*1) MIL-STD-202F, Method 107G

Test Procedures And Requirements For Model PFST Series

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.	Verify dimensions and materials	Per PF physical description
Resistance	In still air @ 23 °C	$R_{min} \leq R \leq R_{max}$
Time to Trip	5 times I_{hold} , V_{max} , 23 °C	$T \leq \text{max. time to trip (sec.)}$
Hold Current	30 min. at I_{hold}	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 48 hours	No arcing or burning

FUSES

Resettable fuses

PFST

Electrical Characteristics

Type	V _{max}	I _{max}	I _{hold}	I _{trip}	Initial Resistance		1 Hour (R1) Post-Trip Resistance	Max. Time to trip at 23 °C	Tripped Power Dissipation /
			Amperes at 23 °C		Ohms at 23 °C		Ohms at 23 °C	Seconds at 23 °C	Watts at 23 °C
			Hold	Trip	min.	max.	R _{1 max.}		
PFST.120	15	100	1.20	2.7	0.085	0.160	0.22	5.0	1.2
PFST.120.S	15	100	1.20	2.7	0.085	0.160	0.22	5.0	1.2
PFST.150	15	100	1.50	3.00	0.05	0.09	0.11	5.0	1.30
PFST.175	15	100	1.75	3.8	0.05	0.09	0.120	4.0	1.5
PFST.175.S	15	100	1.75	3.8	0.05	0.09	0.120	4.0	1.5
PFST.200	30	100	2.00	4.4	0.03	0.06	0.080	4.0	1.90
PFST.350	30	100	3.50	6.3	0.017	0.031	0.040	3.0*	2.50
PFST.420	30	100	4.20	7.6	0.012	0.024	0.040	6.0*	2.90

Packaging

All models packaged in bulk, 500 pieces each.

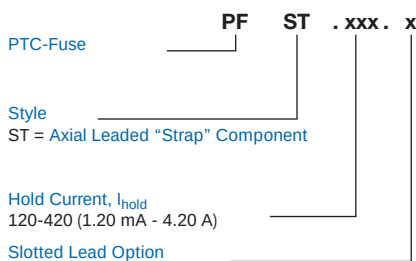
Packaged loose; optional slotted leads (.S) available for 1.20 A and 1.75 A ratings

Dimensions

Type	A		B		C		D		F		Material
	min.	max.	min.	max.	min.	max.	mn.	max.	min.	max.	
PFST.120	19.9	22.1	4.9	5.2	0.6	1.0	5.5	7.5	3.9	4.1	nickel
PFST.120.S	19.9	22.1	4.9	5.2	0.6	1.0	5.5	7.5	3.9	4.1	nickel
PFST.150	20.9	23.1	10.2	11.8	0.6	1.0	4.1	5.5	4.8	5.5	nickel
PFST.175	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1	nickel
PFST.175.S	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1	nickel
PFST.200	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4	nickel
PFST.350	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6	nickel
PFST.420	30.6	32.4	13.0	13.5	0.5	1.1	5.0	7.5	6.0	6.7	nickel

Dimension

How To Order



Thermal Derating Chart - I_{hold} (Amps)

Type	Ambient Operating Temperature								
	-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C
PFST.120	1.9	1.7	1.5	1.2	1.0	0.9	0.8	0.7	0.5
PFST.120.S	1.9	1.7	1.5	1.2	1.0	0.9	0.8	0.7	0.5
PFST.150	2.2	2.0	1.8	1.5	1.3	1.1	1.0	0.9	0.7
PFST.175	2.5	2.3	2.0	1.7	1.5	1.3	1.2	1.1	0.9
PFST.175.S	2.5	2.3	2.0	1.7	1.5	1.3	1.2	1.1	0.9
PFST.200	3.2	2.8	2.5	2.0	1.7	1.6	1.4	1.2	0.9
PFST.350	5.4	4.8	4.3	3.5	3.0	2.8	2.5	2.2	1.7
PFST.420	6.4	5.7	5.1	4.2	3.6	3.3	3.0	2.6	2.1