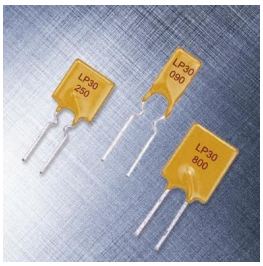


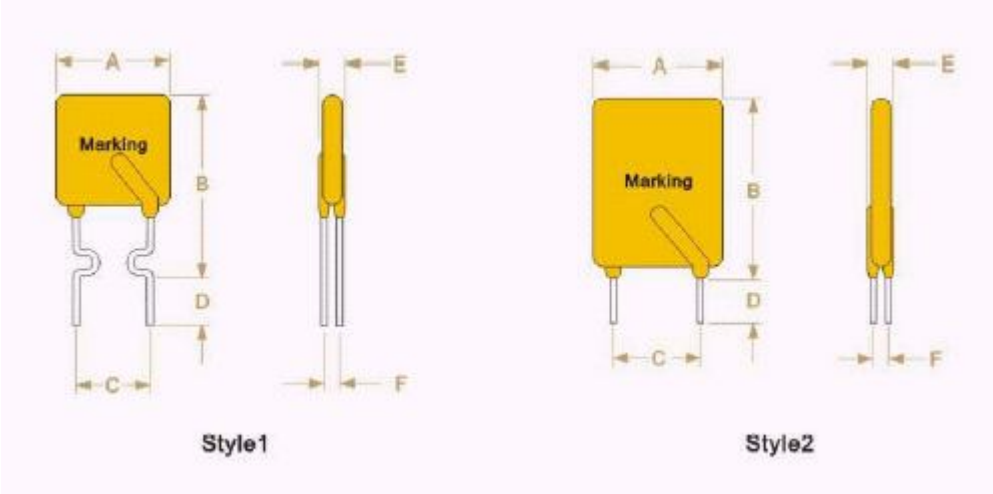
Features

- ☐ Radial leaded devices
- ☐ Cured, flame retardant epoxy polymer insulating material meets UL94 V-0 requirements
- ☐ Available in lead-free version
- ☐ Agency Recognition: UL、CSA、TUV

LP30 *series* ***R-line devices***

Product Dimensions

Part number	A	B	C	D	E	F	Lead	
	Max.	Max.	Typ.	Min.	Max.	Typ.	Style	Size(Φ)
LP30-090F	6.0	13.8	5.1	7.6	3.0	0.9	1	0.5
LP30-110F	8.2	14.0	5.1	7.6	3.0	0.9	1	0.5
LP30-135F	8.9	14.0	5.1	7.6	3.0	0.9	1	0.5
LP30-160SF	9.0	17.0	5.1	7.6	3.0	0.9	1	0.5
LP30-185F	11.0	17.0	5.1	7.6	3.0	0.9	1	0.6
LP30-250F	11.2	19.0	5.1	7.6	3.0	0.9	1	0.6
LP30-300F	12.0	22.5	5.1	7.6	3.0	1.2	2	0.8
LP30-400F	14.2	25.5	5.1	7.6	3.0	1.2	2	0.8
LP30-500F	14.5	30.0	10.2	7.6	3.0	1.2	2	0.8
LP30-600F	17.0	30.0	10.2	7.6	3.0	1.2	2	0.8
LP30-700F	19.4	32.0	10.2	7.6	3.0	1.2	2	0.8
LP30-800F	21.0	34.5	10.2	7.6	3.0	1.2	2	0.8
LP30-900F	24.5	35.0	10.2	7.6	3.0	1.2	2	0.8



Marking system

LP ☐ — Voltage rating

Product family

☐ ☐ ☐

Current rating

* Lead materials: Tin-plate metal wire.

* Lead-free devices are available,

the right logo is lead-free mark of wayon.

CYG Wayon Circuit protection Co., Ltd. Tel: 86-21- 50310888 50968308 Fax: 86-21-50757680
No. 1001, Shiwan Qi Road, Pudong Area, Shanghai E-mail: market@way-on.com Http://www.way-on.com

Electrical Characteristics

Part number	I_H	I_T	Max.Time-to-trip		V_{max}	I_{max}	Pd_{typ}	R_{min}	R_{max}	R_{1max}
	(A)	(A)	(A)	(S)	(V)	(A)	(W)	(Ω)	(Ω)	(Ω)
LP30-090F	0.90	1.80	4.50	7.1	30	40	0.91	0.070	0.120	0.220
LP30-110F	1.10	2.20	5.50	6.6	30	40	1.00	0.050	0.100	0.170
LP30-135F	1.35	2.70	6.75	7.3	30	40	1.11	0.040	0.080	0.130
LP30-160SF	1.60	3.20	8.00	8.0	30	40	1.20	0.030	0.070	0.110
LP30-185F	1.85	3.70	9.25	8.7	30	40	1.27	0.030	0.060	0.090
LP30-250F	2.50	5.00	12.50	10.3	30	40	1.34	0.020	0.040	0.070
LP30-300F	3.00	6.00	15.00	10.8	30	40	2.00	0.020	0.050	0.080
LP30-400F	4.00	8.00	20.00	12.7	30	40	2.50	0.010	0.030	0.050
LP30-500F	5.00	10.00	25.00	14.5	30	40	3.00	0.010	0.030	0.050
LP30-600F	6.00	12.00	30.00	16.0	30	40	3.50	0.005	0.020	0.040
LP30-700F	7.00	14.00	35.00	17.5	30	40	3.80	0.005	0.020	0.030
LP30-800F	8.00	16.00	40.00	18.8	30	40	4.00	0.005	0.020	0.020
LP30-900F	9.00	18.00	40.00	20.0	30	40	4.20	0.005	0.010	0.020

I_H=Hold current: maximum current at which the device will not trip at 25℃ still air.

I_T=Trip current: minimum current at which the device will always trip at 25℃ still air.

Max.Time-to-trip =Maximum time to trip(s) at assigned current.

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

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

Pd_{typ}=Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R_{min}=Minimum device resistance at 25℃ prior to tripping.

R_{max}=Maximum device resistance at 25℃ prior to tripping.

R_{1max}= Maximum resistance of device when measured one hour post trip at 25℃.

Thermal Derating Chart-$I_{H(A)}$

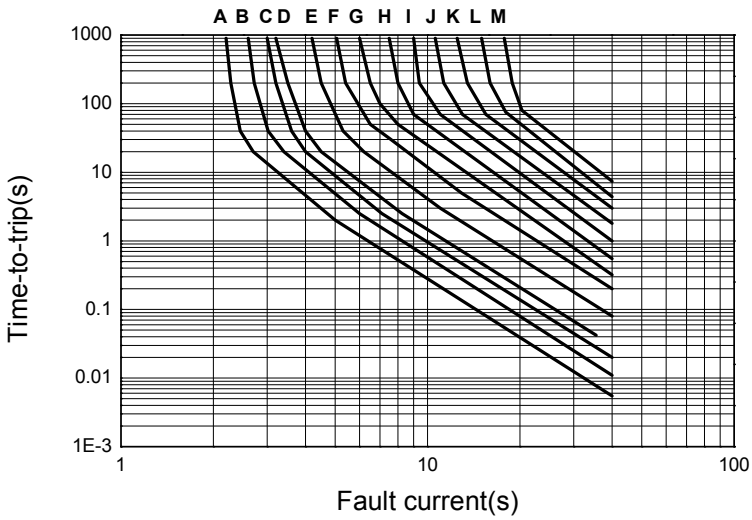
Part number	Maximum ambient operating temperatures(℃)								
	-40	-20	0	25	40	50	60	70	85
LP30-090F	1.40	1.25	1.10	0.90	0.75	0.69	0.65	0.60	0.50
LP30-110F	1.75	1.52	1.33	1.10	0.99	0.90	0.80	0.73	0.63
LP30-135F	2.15	1.94	1.70	1.35	1.20	1.14	1.00	0.90	0.81
LP30-160SF	2.49	2.21	1.94	1.60	1.42	1.31	1.19	1.03	0.88
LP30-185F	2.87	2.59	2.28	1.85	1.63	1.52	1.33	1.21	1.05
LP30-250F	3.82	3.44	3.03	2.50	2.17	2.00	1.81	1.59	1.39
LP30-300F	4.55	4.10	3.60	3.00	2.65	2.51	2.24	2.01	1.74
LP30-400F	6.00	5.40	4.74	4.00	3.47	3.28	2.82	2.63	2.26
LP30-500F	7.44	6.68	5.80	5.00	4.30	4.03	3.58	3.22	2.77
LP30-600F	8.90	7.99	7.08	6.00	5.13	4.82	4.27	3.84	3.30
LP30-700F	10.35	9.30	8.21	7.00	5.95	5.58	4.96	4.46	3.84
LP30-800F	11.60	10.60	9.35	8.00	6.79	6.36	5.64	5.07	4.36
LP30-900F	13.25	11.90	10.49	9.00	7.53	7.12	6.32	5.69	4.88

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25℃	$R_{min} \leqslant R \leqslant R_{max}$
Time to Trip	Specified current, V_{max}, 25℃	T≤maximum Time to Trip
Hold Current	30min, at I_H	No trip
Trip Cycle Life	V_{max}, I_{max}, 100cycles	No arcing or burning
Trip Endurance	V_{max}, 24hours	No arcing or burning

Typical Time–to-Trip Charts at 25℃

A=LP30-090F
B=LP30-110F
C=LP30-135F
D=LP30-160SF
E=LP30-185F
F=LP30-250F
G=LP30-300F
H=LP30-400F
I=LP30-500F
J=LP30-600F
K=LP30-700F
L=LP30-800F
M=LP30-900F



Package Information

Bulk:
LP30-090F~LP30-185F……1000pcs per bag
LP30-250F~LP30-800F……500pcs per bag
LP30-900F……200pcs per bag

Tape & Reel:
LP30-090F~LP30-160SF……3000pcs per reel
LP30-185F~LP30-400F……1500pcs per reel

Notices:
The devices are intended for protection against occasional overcurrent or overtemperature fault conditions and should not be used when repeated fault conditions are anticipated.
Operation beyond maximum ratings or improper use may result in device damage and possible electrical arcing and flame.