

Features



- Radial leaded devices
- High switching temperature
- Provides maximum working temperature with 125°C
- Faster tripping, typical application in micro-motors for automobiles
- Protecting against overcurrent and overtemperature faults
- Agency Recognition:UL、CSA、TUV is pending

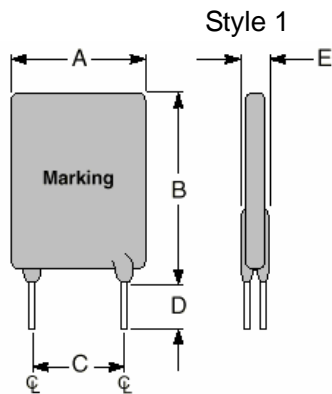
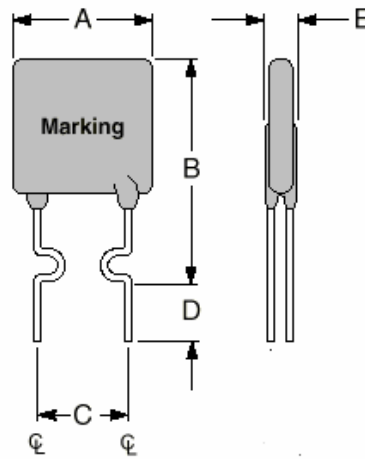
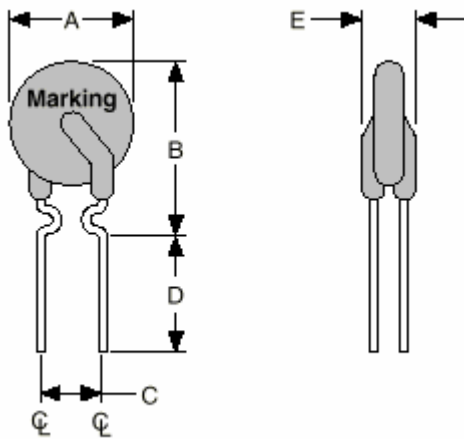


DWPH series

R-line devices

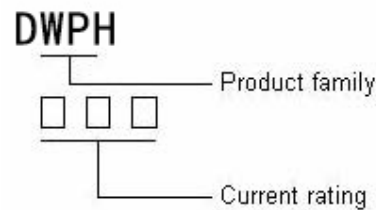
Product Dimensions (mm)

Part number	A	B	C	D	E	Lead	Style
	Max.	Max.	Typ.	Min.	Max.	Size(ϕ)	
DWPH050F	7.5	12.5	5.1	7.6	3.0	0.5	1
DWPH070F	6.5	12.8	5.1	7.6	3.0	0.5	2
DWPH100F	9.6	13.5	5.1	7.6	3.0	0.5	1
DWPH200F	9.5	14.8	5.1	7.6	3.0	0.5	1
DWPH300F	8.8	13.8	5.1	7.6	3.0	0.5	3
DWPH400F	11.0	18.1	5.1	7.6	3.0	0.5	3
DWPH450F	10.2	15.5	5.1	7.6	3.0	0.8	3
DWPH550F	11.2	18.9	5.1	7.6	3.0	0.8	3
DWPH600F	11.1	20.9	5.1	7.6	3.0	0.8	3
DWPH650F	12.5	22.1	5.1	7.6	3.0	0.8	3
DWPH700F	14.0	21.9	5.1	7.6	3.0	0.8	3
DWPH750F	14.0	23.6	5.1	7.6	3.0	0.8	3
DWPH800F	16.5	22.5	5.1	7.6	3.0	0.8	3
DWPH900F	16.6	25.5	5.1	7.6	3.0	0.8	3
DWPH1000F	17.6	26.3	10.2	7.6	3.0	0.8	3
DWPH1100F	21.0	26.1	10.2	7.6	3.0	0.8	3
DWPH1300F	23.6	28.5	10.2	7.6	3.6	1.0	3
DWPH1400F	23.6	28.6	10.2	7.6	3.6	1.0	3
DWPH1500F	23.6	28.5	10.2	7.6	3.6	1.0	3



Style 2

Marking system



Style 3

- * Lead materials: Tin-plate metal wire.
- * The right logo is lead-free mark.



Electrical Characteristic

Part number	I_H (A)	I_T (A)	V_{max} (V)	I_{max} (A)	Max. Time-to-trip (A)	(S)	Pd_{typ} (W)	R_{min} (Ω)	R_{1max} (Ω)
DWPH050F	0.5	0.9	30	40	2.5	2.5	0.9	0.48	1.10
DWPH070F	0.7	1.4	30	40	3.5	4.0	1.4	0.30	0.80
DWPH100F	1.0	1.8	30	40	5.0	5.2	1.4	0.18	0.43
DWPH200F	2.0	3.8	16	100	10.0	4.3	1.4	0.045	0.110
DWPH300F	3.0	6.0	16	100	15.0	5.0	3.0	0.033	0.079
DWPH400F	4.0	7.0	16	100	20.0	5.0	2.0	0.018	0.044
DWPH450F	4.5	8.7	16	100	22.5	4.0	3.6	0.017	0.054
DWPH550F	5.5	10.0	16	100	27.5	6.0	3.5	0.015	0.037
DWPH600F	6.0	12.0	16	100	30.0	6.5	4.1	0.010	0.032
DWPH650F	6.5	13.7	16	100	32.5	7.0	4.3	0.009	0.026
DWPH700F	7.0	13.0	16	100	35.0	7.0	4.0	0.010	0.025
DWPH750F	7.5	14.8	16	100	37.5	8.0	4.5	0.007	0.022
DWPH800F	8.0	15.0	16	100	40.0	8.0	4.2	0.008	0.020
DWPH900F	9.0	16.5	16	100	45.0	10.0	5.0	0.007	0.017
DWPH1000F	10.0	20.5	16	100	50.0	10.5	5.3	0.005	0.015
DWPH1100F	11.0	20.0	16	100	55.0	11.0	5.5	0.005	0.013
DWPH1300F	13.0	27.0	16	100	65.0	15.0	6.9	0.004	0.010
DWPH1400F	14.0	27.0	16	100	70.0	13.0	6.9	0.003	0.009
DWPH1500F	15.0	28.0	16	100	75.0	20.0	7.0	0.003	0.009

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

I_T =Trip current: minimum current at which the device will always trip at 25°C 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.

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

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

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

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Resistance	In still air @ 25°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	Specified current, V_{max} , 25°C	$T \leq$ 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} , 2hours	No arcing or burning

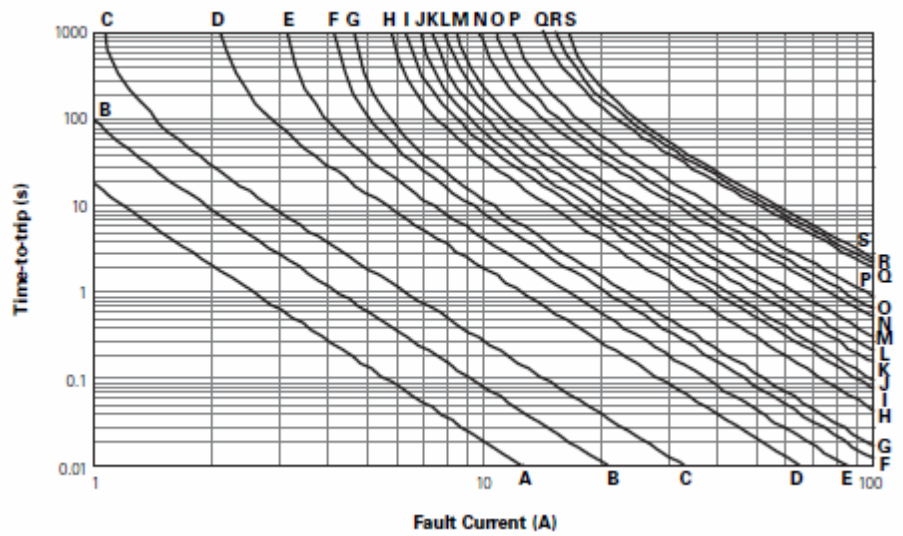
Thermal Derating Chart- $I_H(A)$

Part number	Maximum ambient operating temperatures(°C)									
	-40	-20	0	25	40	50	60	70	85	125
DWPH050F	0.68	0.62	0.56	0.50	0.44	0.40	0.36	0.34	0.28	0.12
DWPH070F	0.95	0.87	0.79	0.70	0.62	0.56	0.51	0.47	0.39	0.17
DWPH100F	1.36	1.24	1.13	1.00	0.89	0.80	0.73	0.67	0.56	0.24
DWPH200F	2.71	2.49	2.26	2.00	1.77	1.60	1.46	1.34	1.11	0.49
DWPH300F	4.0	3.7	3.4	3.0	2.6	2.4	2.2	2.0	1.6	0.74
DWPH400F	5.4	5.0	4.6	4.0	3.5	3.2	3.0	2.6	2.2	0.98
DWPH450F	6.1	5.6	5.1	4.5	4.0	3.6	3.3	3.0	2.5	1.1
DWPH550F	7.4	6.8	6.2	5.5	4.8	4.4	4.0	3.6	3.0	1.3
DWPH600F	8.2	7.5	6.8	6.0	5.3	4.9	4.4	4.0	3.3	1.5
DWPH650F	8.8	8.1	7.4	6.5	5.7	5.3	4.8	4.3	3.6	1.6
DWPH700F	9.2	8.7	7.9	7.0	6.1	5.6	5.1	4.6	3.87	1.7
DWPH750F	10.2	9.4	8.6	7.5	6.6	6.1	5.6	5.0	4.1	1.9
DWPH800F	10.8	9.9	9.0	8.0	7.0	6.4	5.8	5.3	4.4	1.9
DWPH900F	12.2	11.1	10.1	9.0	7.9	7.2	6.5	6.0	5.0	2.1
DWPH1000F	13.6	12.5	11.4	10.0	8.8	8.1	7.4	6.6	5.5	2.5
DWPH1100F	14.9	13.7	12.4	11.0	9.7	8.8	8.0	7.3	6.0	3.3
DWPH1300F	17.7	16.3	14.8	13.0	11.4	10.5	9.6	8.6	7.2	3.3
DWPH1400F	19.1	17.1	15.8	14.0	12.3	11.2	10.2	9.3	7.7	3.4
DWPH1500F	20.4	18.8	17.1	15.0	13.2	12.1	11.1	9.9	8.3	3.8

Typical Time-to-trip Curves at 25°C

DWPH Series

A=DWPH050F	K=DWPH700F
B=DWPH070F	L=DWPH750F
C=DWPH100F	M=DWPH800F
D=DWPH200F	N=DWPH900F
E=DWPH300F	O=DWPH1000F
F=DWPH400F	P=DWPH1100F
G=DWPH450F	Q=DWPH1300F
H=DWPH550F	R=DWPH1400F
I=DWPH600F	
J=DWPH650F	



Packaging and Marking Information

Bulk:

DWPH050F~DWPH450F.....	1000pcs per bag
DWPH600F~DWPH1500F.....	500pcs per bag