

PPTC

Type

PS

PS-WSM

PPTC
Type PS-WSM



Δ Feature

- Fuse Capacitor (Replaces traditional fuses in DC applications)
- Auto Reset (when power is cycled)

Δ Application

- Medical, telecom and consumer electronic equipment.
- Miniature PCB.

Δ Electrical Characteristics

| Model | IH (A) | IT (A) | Ttrip | | Vmax (V) | Imax (A) | Rmin (Ω) | R1max (Ω) |
|-----------|-----------|-----------|-------|------|-------------|----------|-------------|--------------|
| | | | (A) | (S) | | | | |
| PSWSM-010 | 0.10 | 0.20 | 1.5 | 0.15 | 60.0 | 10 | 0.700 | 6.000 |
| PSWSM-014 | 0.14 | 0.28 | 1.5 | 0.15 | 60.0 | 10 | 0.700 | 6.000 |
| PSWSM-020 | 0.20 | 0.40 | 6.0 | 0.06 | 30.0 | 10 | 0.600 | 5.000 |
| PSWSM-035 | 0.35 | 0.70 | 8.0 | 0.20 | 6.0 | 40 | - | 1.300 |
| PSWSM-050 | 0.50 | 1.00 | 8.0 | 0.15 | 15.0 | 40 | 0.150 | 1.000 |
| PSWSM-075 | 0.75 | 1.50 | 8.0 | 0.20 | 13.2 | 40 | 0.100 | 0.480 |
| PSWSM-110 | 1.10 | 2.20 | 8.0 | 0.30 | 6.0 | 40 | 0.040 | 0.260 |
| PSWSM-125 | 1.25 | 2.50 | 8.0 | 0.40 | 6.0 | 40 | 0.070 | 0.250 |
| PSWSM-150 | 1.50 | 3.00 | 8.0 | 0.50 | 6.0 | 40 | 0.040 | 0.110 |
| PSWSM-160 | 1.60 | 3.20 | 8.0 | 1.00 | 6.0 | 40 | 0.030 | 0.100 |
| PSWSM-190 | 1.90 | 3.80 | 10.0 | 2.00 | 16.0 | 100 | 0.024 | 0.080 |
| PSWSM-200 | 2.00 | 4.00 | 8.0 | 2.00 | 6.0 | 40 | 0.020 | 0.060 |
| PSWSM-260 | 2.60 | 5.20 | 8.0 | 2.00 | 6.0 | 40 | 0.015 | 0.047 |

Legend

IH(A): Hold current: maximum current at which the device will not trip at 25°C still air

IT(A): Tripping current: minimum current at which the device will trip at 25°C under specified conditions.

Tt(S): Maximum time to trip at specified current. (generally at 5IH)

Vmax(V): Maximum device operating voltage.

Imax(A): Maximum fault current device can withstand without damage at rated voltage.

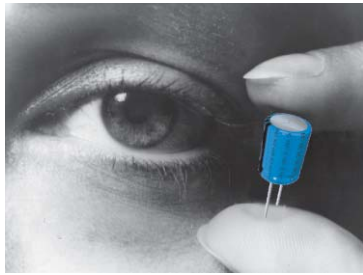
Pdtyp(W): Typical power dissipation: Typical amount of power dissipated by the device when in tripped state air environment.

Ro(Ω): Minimum-maximum device resistance at 25° prior to tripping.

Δ Typical T-I Derating Form

| Model | Ambient Temperature (°C) | | | | | | | | | |
|-----------|--------------------------|------|------|------|------|------|------|------|------|--|
| | -40 | -20 | 0 | 25 | 40 | 50 | 60 | 70 | 85 | |
| PSWSM-014 | 0.23 | 0.19 | 0.17 | 0.14 | 0.12 | 0.10 | 0.09 | 0.08 | 0.06 | |
| PSWSM-020 | 0.29 | 0.26 | 0.23 | 0.20 | 0.17 | 0.15 | 0.14 | 0.12 | 0.10 | |
| PSWSM-035 | 0.47 | 0.45 | 0.40 | 0.35 | 0.30 | 0.28 | 0.24 | 0.21 | 0.18 | |
| PSWSM-050 | 0.77 | 0.68 | 0.59 | 0.50 | 0.44 | 0.40 | 0.37 | 0.33 | 0.29 | |
| PSWSM-075 | 1.15 | 1.01 | 0.88 | 0.75 | 0.65 | 0.60 | 0.55 | 0.49 | 0.43 | |
| PSWSM-110 | 1.59 | 1.43 | 1.26 | 1.10 | 0.95 | 0.87 | 0.80 | 0.71 | 0.60 | |
| PSWSM-190 | 3.04 | 2.70 | 2.20 | 1.90 | 1.44 | 1.23 | 1.00 | 0.78 | 0.49 | |

Surface Mount
Capacitors



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Δ Dimensions

| Model | Amax | Bmax | Cmax | A Nom | B Nom | C Nom |
|-----------|-------|------|------|----------|----------|----------|
| PSWSM-010 | 4.73 | 3.41 | 0.81 | 3.45 | 1.78 | 3.15 |
| PSWSM-014 | 4.73 | 3.41 | 0.81 | 3.45 | 1.78 | 3.15 |
| PSWSM-020 | 4.73 | 3.41 | 0.62 | 3.45 | 1.78 | 3.15 |
| PSWSM-035 | 3.43 | 2.80 | 0.62 | 2.00 | 1.00 | 2.50 |
| PSWSM-050 | 4.73 | 3.41 | 0.62 | 3.45 | 1.78 | 3.15 |
| PSWSM-075 | 4.73 | 3.41 | 0.62 | 3.45 | 1.78 | 3.15 |
| PSWSM-110 | 4.73 | 3.41 | 1.25 | 3.45 | 1.78 | 3.15 |
| PSWSM-125 | 4.73 | 3.41 | 1.25 | 3.45 | 1.78 | 3.15 |
| PSWSM-150 | 4.73 | 3.41 | 1.25 | 3.45 | 1.78 | 3.15 |
| PSWSM-160 | 4.73 | 3.41 | 1.25 | 3.45 | 1.78 | 3.15 |
| PSWSM-190 | 11.51 | 5.33 | 0.55 | 9.57 | 1.45 | 4.75 |
| PSWSM-200 | 4.73 | 3.41 | 1.25 | 3.45 | 1.78 | 3.15 |
| PSWSM-260 | 4.73 | 3.41 | 2.25 | 3.45 | 1.78 | 3.15 |

units: mm

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