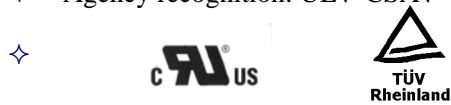
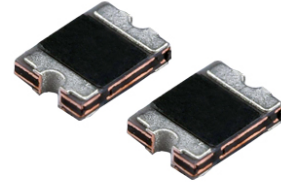


Features

- ✧ Small size of 1210
- ✧ Fast tripping resettable circuit protection
- ✧ Surface mount packaging for automated assembly
- ✧ Agency recognition: UL、CSA、TUV

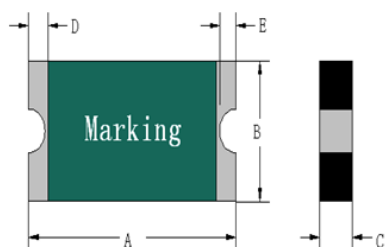


Product Dimensions

Size 3225mm/1210mils

| Part number | A | B | C | D | E |
|---------------|------|------|------|------|------|
| | Max. | Max. | Max. | Min. | Min. |
| DW-USM005 | 3.43 | 2.80 | 1.25 | 0.25 | 0.10 |
| DW-USM010 | 3.43 | 2.80 | 1.25 | 0.25 | 0.10 |
| DW-USM020 | 3.43 | 2.80 | 1.25 | 0.25 | 0.10 |
| DW-USM035 | 3.43 | 2.80 | 0.85 | 0.25 | 0.10 |
| DW-USM050 | 3.43 | 2.80 | 0.85 | 0.25 | 0.10 |
| DW-USM075 | 3.43 | 2.80 | 0.85 | 0.25 | 0.10 |
| DW-USM110 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USM150 | 3.43 | 2.80 | 1.30 | 0.25 | 0.10 |
| DW-USML150 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USM175 | 3.43 | 2.80 | 1.30 | 0.25 | 0.10 |
| DW-USML175 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML175/12 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML190 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML200 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML200/12 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML210 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML230 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML250 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML260 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML260/12 | 3.43 | 2.80 | 0.80 | 0.25 | 0.10 |
| DW-USML300 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML300/12 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML350 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML350/12 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |

| Part number | A | B | C | D | E |
|---------------|------|------|------|------|------|
| | Max. | Max. | Max. | Min. | Min. |
| DW-USML380 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML380/12 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML400 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML400/12 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML450 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML450/12 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML500 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML550 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML600 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML650 | 3.43 | 2.80 | 1.00 | 0.25 | 0.10 |
| DW-USML700 | 3.43 | 2.80 | 1.40 | 0.25 | 0.10 |
| DW-USML750 | 3.43 | 2.80 | 1.40 | 0.25 | 0.10 |



Thermal Derating Chart-IH(A)

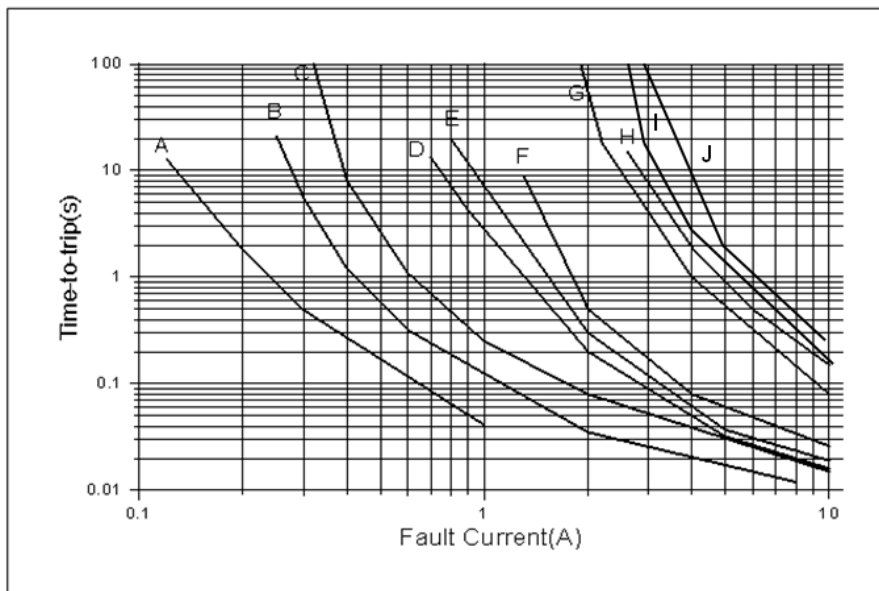
Size 3225mm/1210mils

| Part number | Maximum ambient operating temperatures(°C) | | | | | | | | | |
|---------------|--|------|------|------|------|------|-------|-------|------|------|
| | -40 | -20 | 0 | 20 | 25 | 40 | 50 | 60 | 70 | 85 |
| DW-USM010 | 0.09 | 0.07 | 0.06 | 0.05 | 0.05 | 0.04 | 0.038 | 0.034 | 0.03 | 0.02 |
| DW-USM020 | 0.16 | 0.14 | 0.13 | 0.11 | 0.10 | 0.09 | 0.07 | 0.07 | 0.06 | 0.05 |
| DW-USM035 | 0.32 | 0.26 | 0.24 | 0.21 | 0.20 | 0.16 | 0.15 | 0.14 | 0.11 | 0.09 |
| DW-USM050 | 0.52 | 0.48 | 0.41 | 0.38 | 0.35 | 0.32 | 0.27 | 0.26 | 0.23 | 0.17 |
| DW-USM075 | 0.76 | 0.65 | 0.57 | 0.51 | 0.50 | 0.44 | 0.37 | 0.35 | 0.29 | 0.24 |
| DW-USM110 | 1.11 | 1.00 | 0.87 | 0.77 | 0.75 | 0.66 | 0.58 | 0.53 | 0.46 | 0.36 |
| DW-USM150 | 1.64 | 1.46 | 1.29 | 1.13 | 1.10 | 0.96 | 0.85 | 0.74 | 0.63 | 0.53 |
| DW-USML150 | 2.25 | 2.02 | 1.76 | 1.54 | 1.50 | 1.29 | 1.10 | 1.00 | 0.87 | 0.67 |
| DW-USML175 | 2.25 | 2.00 | 1.75 | 1.55 | 1.50 | 1.33 | 1.15 | 1.05 | 0.93 | 0.70 |
| DW-USML175 | 2.55 | 2.30 | 2.01 | 1.82 | 1.75 | 1.52 | 1.31 | 1.18 | 0.98 | 0.82 |
| DW-USML175 | 2.55 | 2.33 | 2.02 | 1.79 | 1.75 | 1.53 | 1.35 | 1.23 | 1.07 | 0.85 |
| DW-USML175/12 | 2.55 | 2.33 | 2.02 | 1.79 | 1.75 | 1.53 | 1.35 | 1.23 | 1.07 | 0.85 |
| DW-USML190 | 2.81 | 2.53 | 2.20 | 1.95 | 1.90 | 1.67 | 1.47 | 1.34 | 1.17 | 0.91 |
| DW-USML200 | 2.96 | 2.67 | 2.32 | 2.05 | 2.00 | 1.76 | 1.55 | 1.41 | 1.23 | 0.96 |
| DW-USML200/12 | 2.96 | 2.67 | 2.32 | 2.05 | 2.00 | 1.76 | 1.55 | 1.41 | 1.23 | 0.96 |
| DW-USML260 | 3.85 | 3.47 | 3.02 | 2.67 | 2.60 | 2.29 | 2.01 | 1.84 | 1.59 | 1.25 |
| DW-USML260/12 | 3.85 | 3.47 | 3.02 | 2.67 | 2.60 | 2.29 | 2.01 | 1.84 | 1.59 | 1.25 |

Size 3225mm/1210mils

| Part number | Maximum ambient operating temperatures(°C) | | | | | | | | | |
|---------------|--|------|------|------|------|------|------|------|------|------|
| | -40 | -20 | 0 | 20 | 25 | 40 | 50 | 60 | 70 | 85 |
| DW-USML300 | 4.40 | 3.98 | 3.45 | 3.07 | 3.00 | 2.64 | 2.30 | 2.15 | 1.83 | 1.42 |
| DW-USML300/12 | 4.40 | 3.98 | 3.45 | 3.07 | 3.00 | 2.64 | 2.30 | 2.15 | 1.83 | 1.42 |
| DW-USML350 | 5.18 | 4.67 | 4.06 | 3.59 | 3.50 | 3.08 | 2.71 | 2.47 | 2.15 | 1.68 |
| DW-USML350/12 | 5.18 | 4.67 | 4.06 | 3.59 | 3.50 | 3.08 | 2.71 | 2.47 | 2.15 | 1.68 |
| DW-USML380 | 5.55 | 5.02 | 4.35 | 3.89 | 3.80 | 3.32 | 2.92 | 2.65 | 2.30 | 1.81 |
| DW-USML380/12 | 5.55 | 5.02 | 4.35 | 3.89 | 3.80 | 3.32 | 2.92 | 2.65 | 2.30 | 1.81 |
| DW-USML400 | 5.92 | 5.33 | 4.64 | 4.11 | 4.00 | 3.52 | 3.09 | 2.83 | 2.45 | 1.92 |
| DW-USML400/12 | 5.92 | 5.33 | 4.64 | 4.11 | 4.00 | 3.52 | 3.09 | 2.83 | 2.45 | 1.92 |
| DW-USML450 | 6.12 | 5.39 | 5.16 | 4.71 | 4.50 | 3.85 | 3.35 | 3.00 | 2.36 | 1.56 |
| DW-USML450/12 | 6.12 | 5.39 | 5.16 | 4.71 | 4.50 | 3.85 | 3.35 | 3.00 | 2.36 | 1.56 |
| DW-USML500 | 7.40 | 6.67 | 5.80 | 5.13 | 5.00 | 4.40 | 3.87 | 3.53 | 3.07 | 2.40 |
| DW-USML550 | 8.14 | 7.34 | 6.38 | 5.64 | 5.50 | 4.84 | 4.26 | 3.88 | 3.38 | 2.64 |
| DW-USML600 | 8.65 | 7.91 | 6.93 | 6.14 | 6.00 | 5.23 | 4.45 | 4.00 | 3.63 | 2.85 |
| DW-USML650 | 9.20 | 8.45 | 7.45 | 6.66 | 6.50 | 5.60 | 4.65 | 4.30 | 3.89 | 3.00 |
| DW-USML700 | 9.84 | 9.00 | 7.95 | 7.12 | 7.00 | 5.96 | 4.95 | 4.50 | 4.16 | 3.20 |
| DW-USML750 | 10.50 | 9.65 | 8.50 | 7.63 | 7.50 | 6.40 | 5.30 | 4.80 | 4.45 | 4.42 |

Typical Time-to-Trip Charts at 25°C



DW-USM Series

- A = USM005
- B = USM010
- C = USM020
- D = USM035
- E = USM050
- F = USM075
- G = USM110
- H = USM150
- I = USML190
- J = USML200

Electrical Characteristics at 25°C

Size 3225mm/1210 mils

| Part number | I _H | I _T | V _{max} | I _{max} | Max.Time-to-trip | | Pd _{typ} | R _{min} | R _{1max} |
|---------------|----------------|----------------|------------------|------------------|------------------|------|-------------------|------------------|-------------------|
| | (A) | (A) | (V) | (A) | (A) | (S) | (W) | (Ω) | (Ω) |
| DW-USM005 | 0.05 | 0.15 | 30 | 10 | 0.25 | 1.50 | 1.0 | 3.600 | 50.000 |
| DW-USM010 | 0.10 | 0.30 | 30 | 10 | 0.50 | 1.50 | 1.0 | 1.600 | 15.000 |
| DW-USM020 | 0.20 | 0.40 | 30 | 10 | 8.00 | 0.02 | 1.0 | 0.800 | 5.000 |
| DW-USM035 | 0.35 | 0.70 | 6 | 40 | 8.00 | 0.20 | 1.0 | 0.320 | 1.300 |
| DW-USM050 | 0.50 | 1.00 | 6 | 40 | 8.00 | 0.10 | 1.0 | 0.250 | 0.900 |
| DW-USM075 | 0.75 | 1.50 | 6 | 40 | 8.00 | 0.10 | 1.0 | 0.130 | 0.400 |
| DW-USM110 | 1.10 | 2.20 | 6 | 40 | 8.00 | 0.30 | 1.0 | 0.060 | 0.210 |
| DW-USM150 | 1.50 | 3.00 | 6 | 40 | 8.00 | 0.50 | 1.0 | 0.040 | 0.110 |
| DW-USML150 | 1.50 | 3.00 | 6 | 50 | 8.00 | 0.50 | 1.2 | 0.010 | 0.060 |
| DW-USM175 | 1.75 | 3.50 | 6 | 40 | 8.00 | 0.80 | 0.8 | 0.020 | 0.080 |
| DW-USML175 | 1.75 | 3.50 | 6 | 50 | 8.00 | 0.80 | 1.2 | 0.005 | 0.040 |
| DW-USML175/12 | 1.75 | 3.50 | 12 | 50 | 8.00 | 0.80 | 1.2 | 0.005 | 0.040 |
| DW-USML190 | 1.90 | 4.90 | 6 | 50 | 9.50 | 5.00 | 1.2 | 0.004 | 0.018 |
| DW-USML200 | 2.00 | 4.00 | 6 | 50 | 8.00 | 5.00 | 1.2 | 0.004 | 0.028 |
| DW-USML200/12 | 2.00 | 4.00 | 12 | 50 | 8.00 | 5.00 | 1.2 | 0.004 | 0.028 |
| DW-USML210 | 2.10 | 4.20 | 6 | 50 | 8.00 | 5.00 | 1.2 | 0.004 | 0.026 |
| DW-USML230 | 2.30 | 4.60 | 6 | 50 | 8.00 | 5.00 | 1.2 | 0.004 | 0.024 |
| DW-USML250 | 2.50 | 5.00 | 6 | 50 | 8.00 | 5.00 | 1.2 | 0.004 | 0.022 |
| DW-USML260 | 2.60 | 8.10 | 6 | 50 | 8.00 | 5.00 | 1.2 | 0.004 | 0.020 |
| DW-USML260/12 | 2.60 | 8.10 | 12 | 50 | 8.00 | 5.00 | 1.2 | 0.004 | 0.020 |
| DW-USML300 | 3.00 | 6.00 | 6 | 50 | 15.00 | 5.00 | 1.5 | 0.003 | 0.020 |
| DW-USML300/12 | 3.00 | 6.00 | 12 | 50 | 15.00 | 5.00 | 1.5 | 0.003 | 0.020 |
| DW-USML350 | 3.50 | 7.00 | 6 | 50 | 17.50 | 2.00 | 1.5 | 0.002 | 0.014 |
| DW-USML350/12 | 3.50 | 7.00 | 12 | 50 | 17.50 | 2.00 | 1.5 | 0.002 | 0.014 |
| DW-USML380 | 3.80 | 7.60 | 6 | 50 | 19.00 | 2.00 | 1.5 | 0.002 | 0.016 |
| DW-USML380/12 | 3.80 | 7.60 | 12 | 50 | 19.00 | 2.00 | 1.5 | 0.002 | 0.016 |
| DW-USML400 | 4.00 | 8.00 | 6 | 50 | 20.00 | 2.00 | 1.5 | 0.002 | 0.012 |
| DW-USML400/12 | 4.00 | 8.00 | 12 | 50 | 20.00 | 2.00 | 1.5 | 0.002 | 0.012 |
| DW-USML450 | 4.50 | 9.00 | 6 | 50 | 22.50 | 5.00 | 1.5 | 0.002 | 0.013 |
| DW-USML450/12 | 4.50 | 9.00 | 12 | 50 | 22.50 | 5.00 | 1.5 | 0.002 | 0.013 |
| DW-USML500 | 5.00 | 10.00 | 6 | 50 | 25.00 | 5.00 | 1.5 | 0.002 | 0.012 |
| DW-USML550 | 5.50 | 11.00 | 6 | 50 | 27.50 | 5.00 | 1.5 | 0.002 | 0.010 |
| DW-USML600 | 6.00 | 12.00 | 6 | 50 | 30.00 | 5.00 | 1.5 | 0.001 | 0.010 |
| DW-USML650 | 6.50 | 13.00 | 6 | 50 | 32.50 | 5.00 | 1.5 | 0.001 | 0.009 |
| DW-USML700 | 7.00 | 14.00 | 6 | 50 | 35.00 | 5.00 | 1.5 | 0.001 | 0.008 |
| DW-USML750 | 7.50 | 15.00 | 6 | 50 | 37.50 | 5.00 | 1.5 | 0.001 | 0.007 |

Remark:

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.

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.

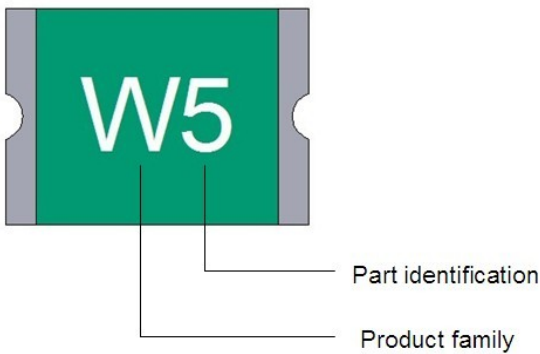
T_{trip} =Maximum time to trip at assigned current.

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

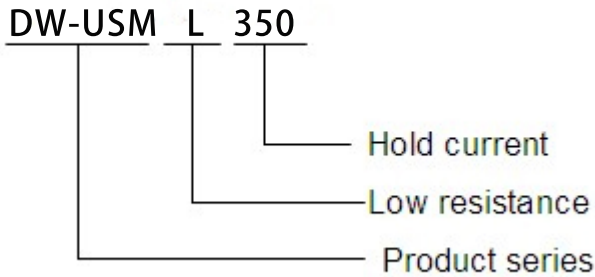
R_{min} =Minimum device resistance at 25°C prior to tripping.

R_{1max} =Maximum device resistance measured in the nontripped state 1 hour post reflow.

Marking System



Part Numbering System



Test Procedures And Requirements

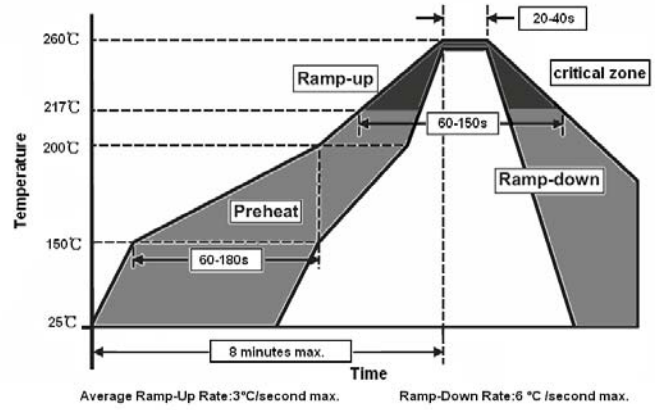
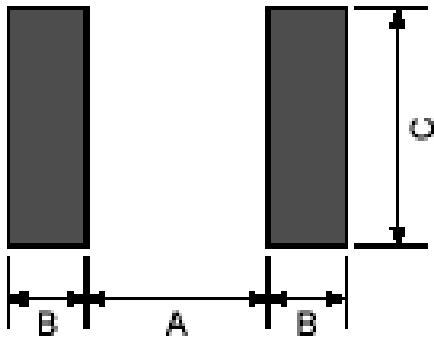
| Test | Test Conditions | Accept/Reject Criteria |
|-----------------|-------------------------------------|-------------------------------|
| Resistance | In still air @ 25°C | $R_{min} \leq R \leq R_{max}$ |
| Time to Trip | Specified current, V_{max} , 25°C | $T \leq$ maximum Time to Trip |
| Hold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

Packaging and Marking Information

Size 3225mm/1210 mils

| Part number | Tape & Reel Quantity | Tape spc code | Part Marking | Recommended Pad Layout Figures[mm(In.)] | | | | | | Agency Recognition |
|---------------|----------------------------|---------------------|-----------------|---|---------|-----------|---------|-----------|---------|-----------------------|
| | | | | Dimension | | Dimension | | Dimension | | |
| | | | | A(Nom.) | | B(Nom.) | | C(Nom.) | | |
| DW-USM005 | 4000 | 1210A | W0 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM010 | 4000 | 1210A | W1 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM020 | 4000 | 1210A | W2 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM035 | 4000 | 1210A | W3 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM050 | 4000 | 1210A | W4 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM075 | 4000 | 1210A | W5 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM110 | 4000 | 1210A | W6 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM150 | 4000 | 1210B | W7 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML150 | 4000 | 1210A | W7 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USM175 | 4000 | 1210B | W9 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | |
| DW-USML175 | 4000 | 1210A | W9 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML175/12 | 4000 | 1210A | W9 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML190 | 4000 | 1210A | D | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML200 | 4000 | 1210A | D1 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML200/12 | 4000 | 1210A | D1 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML210 | 4000 | 1210A | D2 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML230 | 4000 | 1210A | D3 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML250 | 4000 | 1210A | D4 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML260 | 4000 | 1210A | D6 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML260/12 | 4000 | 1210A | D6 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML300 | 4000 | 1210A | D30 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML300/12 | 4000 | 1210A | D30 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML350 | 4000 | 1210A | D5 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML350/12 | 4000 | 1210A | D5 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML380 | 4000 | 1210A | D38 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML380/12 | 4000 | 1210A | D38 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML400 | 4000 | 1210A | D7 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML400/12 | 4000 | 1210A | D7 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML450 | 4000 | 1210A | <u>D9</u> | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML450/12 | 4000 | 1210A | <u>D9</u> | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA |
| DW-USML500 | 4000 | 1210A | D- | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML550 | 4000 | 1210A | D9 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML600 | 4000 | 1210A | B6 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML650 | 4000 | 1210A | B65 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML700 | 4000 | 1210B | B7 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |
| DW-USML750 | 4000 | 1210B | B75 | 2.00 | (0.081) | 1.00 | (0.041) | 2.50 | (0.101) | UL,CSA,TUV |

Solder Pad Layouts



* Recommended reflow methods: IR, Vapor phase oven, hot air oven, wave solder.

* Devices can be cleaned using standard industry methods and solvents.

Notes:

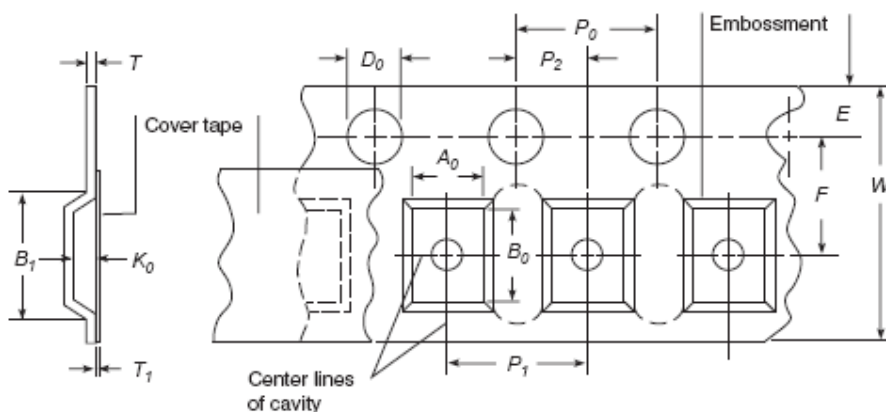
If reflow temperatures exceed the recommended profile,

Devices may not meet the performance requirements.

Contamination of the PPTC material with certain silicone-based oils or some aggressive solvents adversely impact the performance of the devices

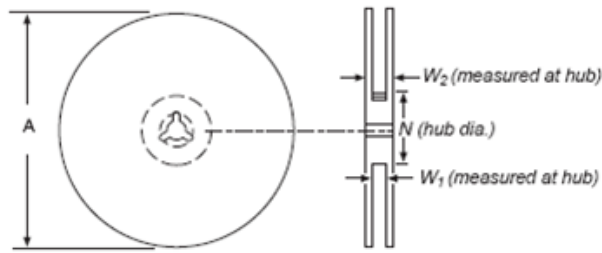
Tape Specification And Reel Dimensions

| Tape spec code | W | P0 | P1 | P2 | A | B | D | F | E | T | K |
|----------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| 1210(A) | 8.00± 0.10 | 4.00± 0.10 | 4.00± 0.10 | 2.00± 0.05 | 2.82± 0.10 | 3.46± 0.10 | 1.55± 0.05 | 3.50± 0.10 | 1.75± 0.10 | 0.22± 0.05 | 1.00± 0.10 |
| 1210(B) | 8.00± 0.10 | 4.00± 0.10 | 4.00± 0.10 | 2.00± 0.05 | 2.82± 0.10 | 3.46± 0.10 | 1.55± 0.05 | 3.50± 0.10 | 1.75± 0.10 | 0.22± 0.05 | 1.25± 0.10 |



Reel Dimensions

| Tape spc code | A | N | W1 | W2 |
|---------------|------------|---------|----------|-----------|
| 1210(A) | 180+0/-1.5 | 60+1/-0 | 9.0+1/-0 | 13.0+1/-0 |
| 1210(B) | 180+0/-1.5 | 60+1/-0 | 9.0+1/-0 | 13.0+1/-0 |



Storage

The maximum ambient temperature shall not exceed 40°C. Storage temperatures higher than 40°C could result in the deformation of packaging materials. The maximum relative humidity recommended for storage is 70%. High humidity with high temperature can accelerate the oxidation of the solder plating on the termination and reduce the solderability of the components. Sealed plastic bags with desiccant shall be used to reduce the oxidation of the termination and shall only be opened prior to use. The products shall not be stored in areas where harmful gases containing sulfur or chlorine are present.

Warning:

PPTC devices are intended for protection against occasional over-current or over-temperature 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.