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Surface Mount Type

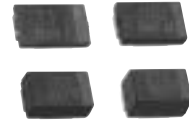
SP-Cap

Series: H

- Features Endurance:125°C 1000h
- Low ESR
- RoHS directive compliant
- Reflow 240°C

Country of Origin

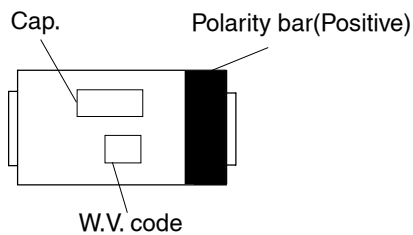
Japan



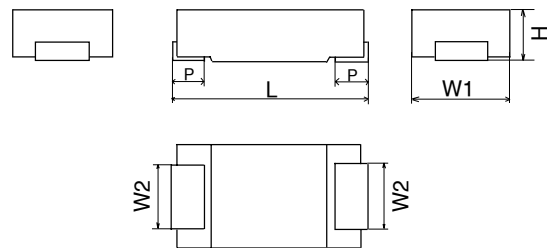
■ Specification

| Series & Size Code | HL | HD | HE | | |
|-----------------------|---|-----------------------------------|--------------|-----------|-----------|
| Category Temp.Range | -40 to 125°C | | | | |
| Rated W.V.Range | 2 to 8V.DC | | | | |
| Nominal Cap.Range | 33 to 100µF | 68 to 220µF | 100 to 330µF | | |
| Capacitance Tolerance | ±20 % | | | | |
| DC Leakage Current | $I \leq 0.1 CV$ 2minutes | | | | |
| tan δ | $\leq 0.06(120Hz/+20^\circ C)$ | $\leq 0.10(120Hz/ +20^\circ C)$ | | | |
| Surge Voltage | Rated Working Voltage × 1.25 (15 to 35°C) | | | | |
| Endurance | After applying rated working voltage for 1000 hours at 105±2°C or derated voltage(W.V.×0.875 at 115°C or W.V.×0.75 at 125°C), and then being stabilized at +20°C,capacitor shall meet the following limits. | | | | |
| | Capacitance change | ±10% of initial measured value | | | |
| | tan δ | ≤ Initial specified value | | | |
| | DC leakage current | ≤ Initial specified value | | | |
| Moisture resistance | After storing for 500 hours at 60°C,90% | | | | |
| | Capacitance change of initial measurd value | 2, 2.5V.DC | 4 V.DC | 6.3V.DC | 8V.DC |
| | | +70, -20% | +60, -20% | +50, -20% | +40, -20% |
| | tan δ | ≤ 200% of initial specified value | | | |
| DC leakage current | ≤ Initial specified value | | | | |

■ Marking



■ Dimensions in mm(not to scale)



(mm)

| Series & Size Code | L±0.2 | W1±0.2 | W2±0.1 | H | P±0.3 |
|--------------------|-------|--------|--------|---------|-------|
| HL | 7.3 | 4.3 | 2.4 | 1.8±0.1 | 1.3 |
| HD | 7.3 | 4.3 | 2.4 | 2.8±0.2 | 1.3 |
| HE | 7.3 | 4.3 | 2.4 | 4.2±0.1 | 1.3 |

■ High heat-resistant products(H series)

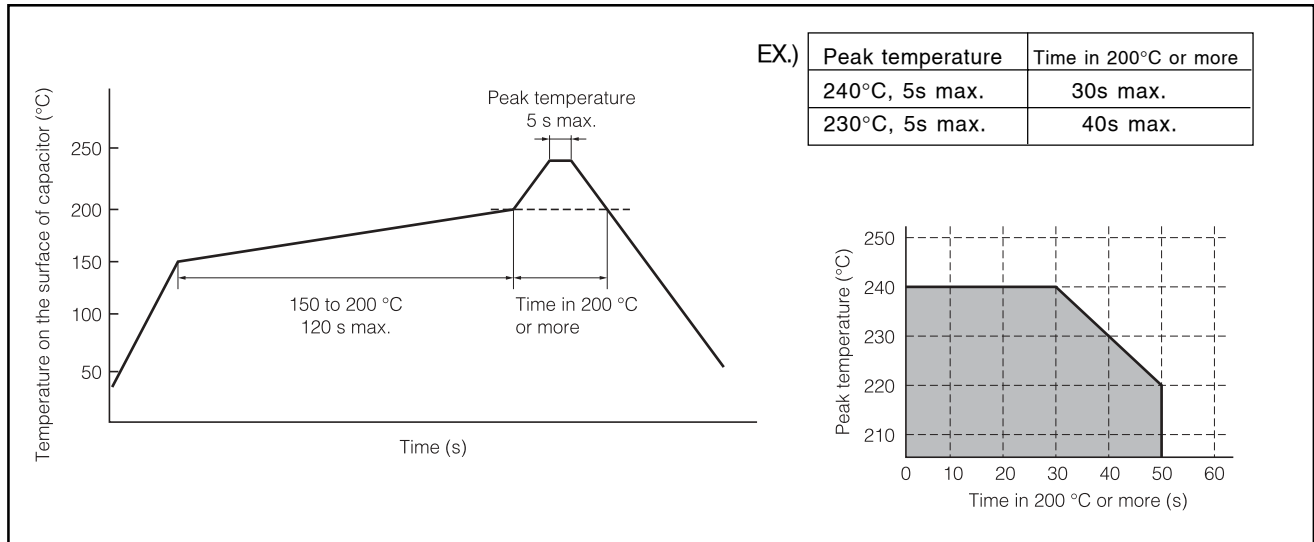
| Series & Size Code | Rated W.V. (V.DC) | Capacitance (±20%) (μF) | Case Size | | | Specification | | Reflow 240°C | Reflow 260°C | Min. Packaging Q'ty (pcs) |
|--------------------|-------------------|-------------------------|-----------|--------|--------|-----------------------------|------------|--------------|--------------|---------------------------|
| | | | L (mm) | W (mm) | H (mm) | Ripple current *1 (Ar.m.s.) | ESR *2 (Ω) | Part number | Part number | |
| HL | 2 | 100 | 7.3 | 4.3 | 1.8 | 1.8 | 0.018 | EEFHL0D101R | — | 3500 |
| | 2.5 | 82 | 7.3 | 4.3 | 1.8 | 1.8 | 0.018 | EEFHL0E820R | — | 3500 |
| | 4 | 56 | 7.3 | 4.3 | 1.8 | 1.8 | 0.018 | EEFHL0G560R | — | 3500 |
| | | 68 | 7.3 | 4.3 | 1.8 | 1.8 | 0.018 | EEFHL0G680R | — | 3500 |
| | 6.3 | 47 | 7.3 | 4.3 | 1.8 | 1.8 | 0.018 | EEFHL0J470R | — | 3500 |
| | 8 | 33 | 7.3 | 4.3 | 1.8 | 1.8 | 0.018 | EEFHL0K330R | — | 3500 |
| HD | 2 | 180 | 7.3 | 4.3 | 2.8 | 2.5 | 0.015 | EEFHD0D181R | — | 2000 |
| | | 220 | 7.3 | 4.3 | 2.8 | 2.5 | 0.015 | EEFHD0D221R | — | 2000 |
| | 2.5 | 150 | 7.3 | 4.3 | 2.8 | 2.5 | 0.015 | EEFHD0E151R | — | 2000 |
| | | 180 | 7.3 | 4.3 | 2.8 | 2.5 | 0.015 | EEFHD0E181R | — | 2000 |
| | 4 | 120 | 7.3 | 4.3 | 2.8 | 2.5 | 0.015 | EEFHD0G121R | — | 2000 |
| | 6.3 | 100 | 7.3 | 4.3 | 2.8 | 2.5 | 0.015 | EEFHD0J101R | — | 2000 |
| | 8 | 68 | 7.3 | 4.3 | 2.8 | 2.5 | 0.015 | EEFHD0K680R | — | 2000 |
| HE | 2 | 270 | 7.3 | 4.3 | 4.2 | 3.0 | 0.012 | EEFHE0D271R | — | 2000 |
| | | 330 | 7.3 | 4.3 | 4.2 | 3.0 | 0.012 | EEFHE0D331R | — | 2000 |
| | 2.5 | 220 | 7.3 | 4.3 | 4.2 | 3.0 | 0.012 | EEFHE0E221R | — | 2000 |
| | | 270 | 7.3 | 4.3 | 4.2 | 3.0 | 0.012 | EEFHE0E271R | — | 2000 |
| | 4 | 180 | 7.3 | 4.3 | 4.2 | 3.0 | 0.012 | EEFHE0G181R | — | 2000 |
| | 6.3 | 150 | 7.3 | 4.3 | 4.2 | 3.0 | 0.012 | EEFHE0J151R | — | 2000 |
| | 8 | 100 | 7.3 | 4.3 | 4.2 | 3.0 | 0.012 | EEFHE0K101R | — | 2000 |

*1: Ripple current (100kHz/ +20 to +105°C),

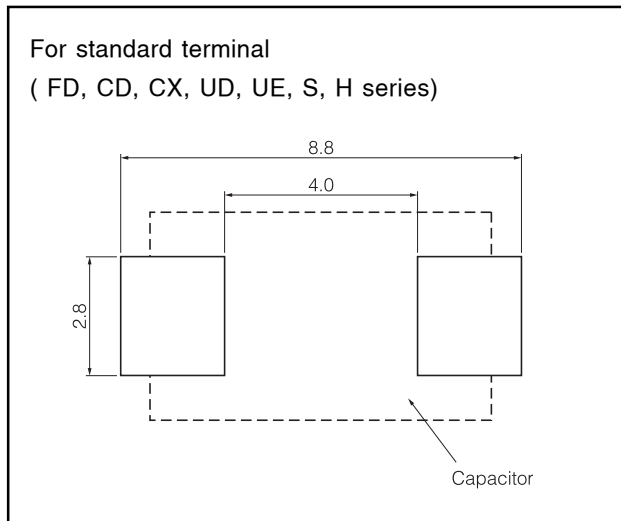
*2: ESR (100kHz/+20°C)

■ Mounting Specifications.

- Recommendable reflow soldering temperature 240°C

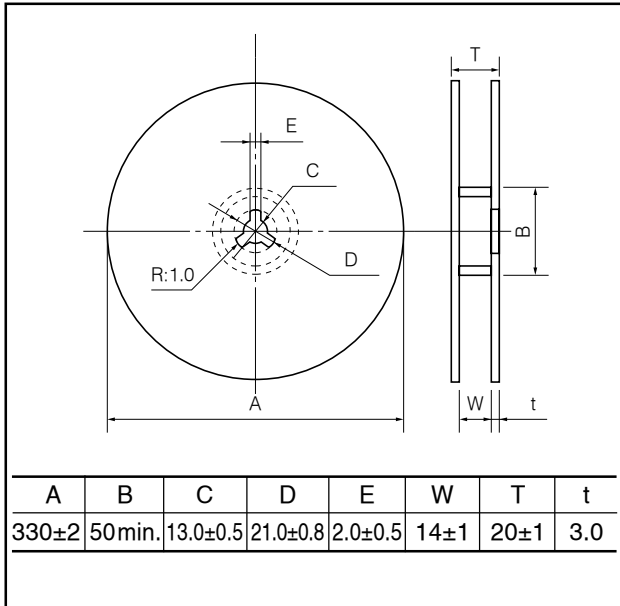


● Typical land pattern (mm)

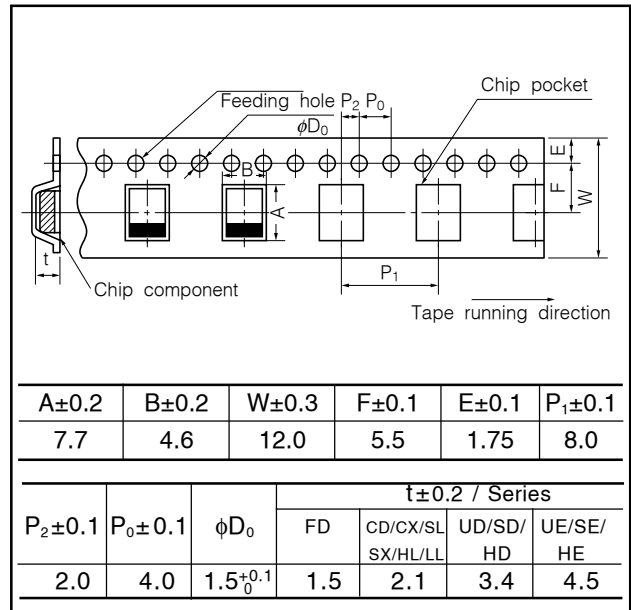


■ Packaging Specifications

● Reel Dimensions (mm)



● Embossed Taping (mm)



■ Packaging Box Dimensions (mm)

