

PPS Film Capacitor

Type: **ECHS(Z)**

Non-inductive construction with PPS film designed for high heat resistance and high frequency applications



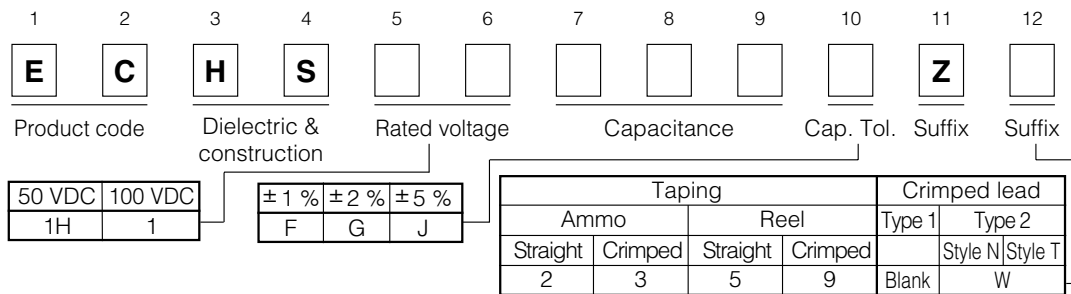
■ Features

- Wide operating temperature range $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$
- Excellent temperature coefficient $-100\text{ ppm}/^{\circ}\text{C}$
- Excellent frequency characteristics
- RoHS directive compliant

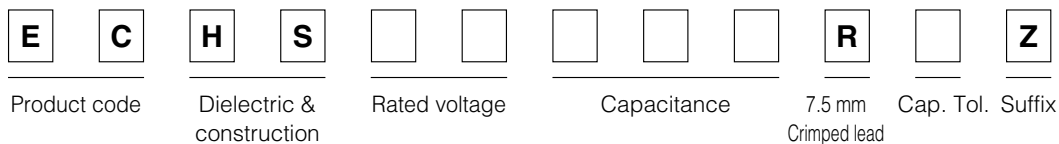
■ Recommended Applications

- Automotive components
- Oscillation circuits

■ Explanation of Part Numbers



● Explanation of Part Number for Odd Size Taping

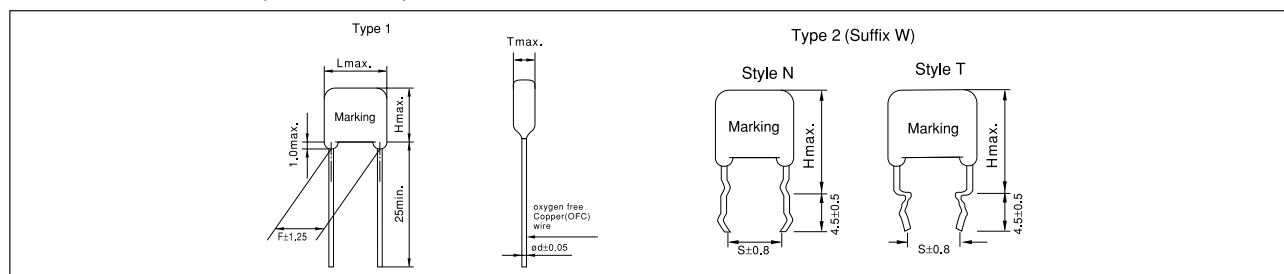


■ Specifications

| | |
|--|---|
| Category temp. range (Including temperature-rise on unit surface) | $-40\text{ }^{\circ}\text{C}$ to $+125\text{ }^{\circ}\text{C}$ |
| Rated voltage | 50 VDC, 100 VDC |
| Capacitance range | 50 V : $0.0010\text{ }\mu\text{F}$ to $0.47\text{ }\mu\text{F}$ 100 V : $0.00010\text{ }\mu\text{F}$ to $0.47\text{ }\mu\text{F}$ |
| Capacitance tolerance | $\pm 1\%$ (F), $\pm 2\%$ (G), $\pm 5\%$ (J) |
| Dissipation factor ($\tan\delta$) | $\tan\delta \leq 0.3\%$ ($20\text{ }^{\circ}\text{C}$, 1 kHz) |
| Withstand voltage | Between terminals : Rated volt.(VDC) $\times 250\%$ 1 s to 5 s |
| Insulation resistance (IR) | $C \leq 0.33\text{ }\mu\text{F}$: $IR \geq 45000\text{ M}\Omega$ $C > 0.33\text{ }\mu\text{F}$: $IR \geq 15000\text{ M}\Omega \cdot \mu\text{F}$ ($20\text{ }^{\circ}\text{C}$, 100 VDC, 60 s) |

* In case of applying voltage in alternating current (50 Hz or 60 Hz sine wave) to a capacitor with DC rated voltage, please refer to the page of "Permissible voltage (R.M.S) in alternating current corresponding to DC rated voltage".

■ Dimensions in mm (not to scale)



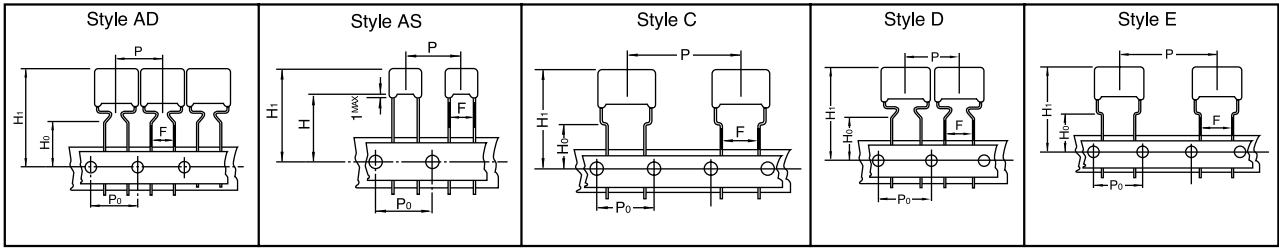
■ Packaging Specifications for Bulk Package

Packing quantity: 100 pcs./bag

Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use. Whenever a doubt about safety arises from this product, please inform us immediately for technical consultation without fail.

■ Taping Specifications for Automatic Insertion

● Taping style



※Refer to the page of taping specifications.

● Packaging Specifications

| Type | Rated volt. | Cap. range (μF) | Taping style | | | | | | Packing |
|------|-------------|-------------------|--------------|----|---|---|---|---|---------|
| | | | AD | AS | B | C | D | E | |
| ECHS | 50 VDC | 0.0010 to 0.056 | ○ | | | | | | Ammo |
| | | 0.0010 to 0.056 | ○ | | | | | | Reel |
| | | 0.0010 to 0.012 | | ○ | | | | | Ammo |
| | | 0.0010 to 0.012 | | ○ | | | | | Reel |
| | | 0.068 to 0.47 | | | | ○ | | | Ammo |
| | | 0.15 to 0.47 | | | | | | ○ | Ammo |
| | | 0.068 to 0.12 | | | | | ○ | | Ammo |
| | 100 VDC | 0.00010 to 0.027 | ○ | | | | | | Ammo |
| | | 0.00010 to 0.027 | ○ | | | | | | Reel |
| | | 0.00010 to 0.0047 | | ○ | | | | | Ammo |
| | | 0.00010 to 0.0047 | | ○ | | | | | Reel |
| | | 0.033 to 0.12 | | | | ○ | | | Ammo |
| | | 0.033 to 0.056 | | | | | ○ | | Ammo |
| | | 0.068 to 0.47 | | | | | | ○ | Ammo |

● Lead Spacing

| Style | Lead Spacing |
|-------|--------------|
| AD | 5.0 mm |
| AS | 5.0 mm |
| C | 5.0 mm |
| D | 7.5 mm |
| E | 7.5 mm |

※ See the column "Rating, Dimensions & Quantity Box" for packing quantity.

■ Rating, Dimensions & Quantity/Ammo Box or Reel

● Rated voltage : 50 VDC, Capacitance tolerance : ±1 % (F), ±2 % (G), ±5 % (J)

| Part No. | Cap. (μF) | Dimensions (mm) | | | | | | | | Quantity | |
|------------------|-----------|-------------------|-------------------|-------------------|--------|-------|-----|------|------|----------|--------|
| | | L _{max.} | T _{max.} | H _{max.} | | F | S | ød | Ammo | Reel | |
| | | | | Type 1 | Type 2 | | | | | | Type 1 |
| ECHS1H102 □Z () | 0.0010 | 8.5 | 4.0 | 7.6 | 12.6 | 5.00 | 5.0 | 0.60 | 1000 | | |
| ECHS1H122 □Z () | 0.0012 | 8.5 | 4.0 | 7.8 | 12.8 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H152 □Z () | 0.0015 | 8.5 | 4.0 | 7.6 | 12.6 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H182 □Z () | 0.0018 | 8.5 | 4.0 | 7.6 | 12.6 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H222 □Z () | 0.0022 | 8.5 | 4.0 | 7.8 | 12.8 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H272 □Z () | 0.0027 | 8.5 | 4.0 | 7.8 | 12.8 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H332 □Z () | 0.0033 | 8.5 | 4.0 | 8.0 | 13.0 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H392 □Z () | 0.0039 | 8.5 | 4.0 | 7.8 | 12.8 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H472 □Z () | 0.0047 | 8.5 | 4.0 | 8.0 | 13.0 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H562 □Z () | 0.0056 | 8.5 | 4.0 | 8.2 | 13.2 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H682 □Z () | 0.0068 | 8.5 | 4.0 | 7.6 | 12.6 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H822 □Z () | 0.0082 | 8.5 | 4.0 | 7.6 | 12.6 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H103 □Z () | 0.010 | 8.5 | 4.0 | 7.8 | 12.8 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H123 □Z () | 0.012 | 8.5 | 4.0 | 8.0 | 13.0 | 5.00 | 5.0 | 0.60 | | | |
| ECHS1H153 □Z () | 0.015 | 12.0 | 4.5 | 7.8 | 12.8 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H183 □Z () | 0.018 | 12.0 | 4.5 | 8.0 | 13.0 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H223 □Z () | 0.022 | 12.0 | 4.5 | 8.2 | 13.2 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H273 □Z () | 0.027 | 12.0 | 4.5 | 10.4 | 15.4 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H333 □Z () | 0.033 | 12.0 | 4.5 | 10.6 | 15.6 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H393 □Z () | 0.039 | 12.0 | 5.0 | 10.4 | 15.4 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H473 □Z () | 0.047 | 12.0 | 5.0 | 10.8 | 15.8 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H563 □Z () | 0.056 | 12.0 | 5.5 | 11.0 | 16.0 | 7.50 | 5.0 | 0.60 | | | |
| ECHS1H683 □Z () | 0.068 | 14.5 | 5.0 | 11.2 | 16.2 | 10.00 | 5.0 | 0.60 | | | |
| ECHS1H823 □Z () | 0.082 | 14.5 | 5.5 | 11.6 | 16.6 | 10.00 | 5.0 | 0.60 | | | |
| ECHS1H104 □Z () | 0.10 | 14.5 | 6.0 | 12.0 | 17.0 | 10.00 | 5.0 | 0.60 | | | |
| ECHS1H124 □Z () | 0.12 | 14.5 | 6.5 | 12.4 | 18.4 | 10.00 | 5.0 | 0.60 | | | |
| ECHS1H154 □Z () | 0.15 | 17.0 | 6.5 | 12.4 | 18.4 | 12.50 | 5.0 | 0.60 | | | |
| ECHS1H184 □Z () | 0.18 | 17.0 | 6.5 | 14.0 | 19.0 | 12.50 | 5.0 | 0.60 | | | |
| ECHS1H224 □Z () | 0.22 | 17.0 | 7.0 | 14.4 | 19.4 | 12.50 | 5.0 | 0.60 | | | |
| ECHS1H274 □Z () | 0.27 | 17.0 | 7.5 | 15.2 | 20.2 | 12.50 | 5.0 | 0.80 | | | |
| ECHS1H334 □Z () | 0.33 | 17.0 | 8.5 | 15.8 | 20.8 | 12.50 | 5.0 | 0.80 | | | |
| ECHS1H394 □Z () | 0.39 | 17.0 | 9.0 | 16.4 | 21.4 | 12.50 | 5.0 | 0.80 | | | |
| ECHS1H474 □Z () | 0.47 | 17.0 | 10.0 | 17.2 | 22.2 | 12.50 | 5.0 | 0.80 | | | |

Suffix for lead crimped or taped type
 Cap. tol. code

Style N: 0.0010 μF to 0.012 μF
 Style T: 0.015 μF to 0.47 μF

单击下面可查看定价，库存，交付和生命周期等信息

[>>Panasonic\(松下\)](#)