

COMPONENT SPECIFICATION

SERIES NAME Metallized Polypropylene Film
Capacitors for Air conditioner
DEKI SERIES NO. 173



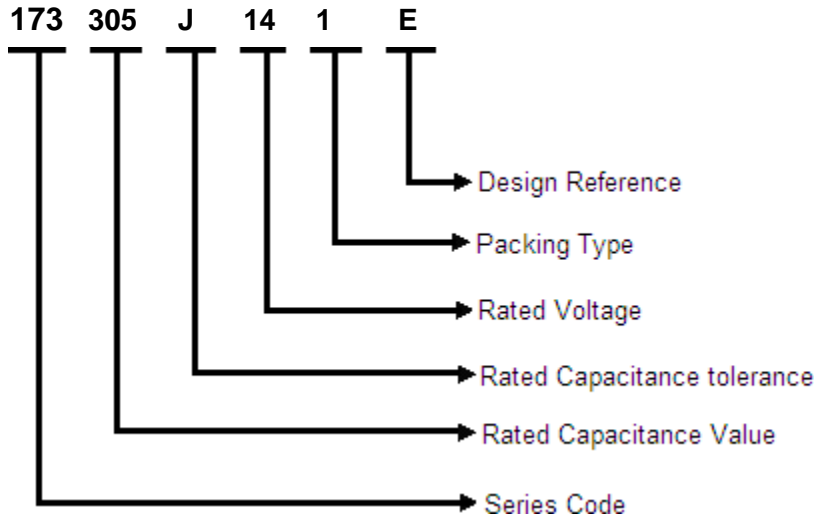
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Part Number Description



Three-digit (804) indicate rated capacitance in Pico Farad (First two digits indicate value & third digit indicates number of zeroes to be suffixed to first two digits).

For example:

| | | | | |
|-----|--------------------|---------------|------------|---------------|
| 103 | = 10×10^3 | = 10000 pF | = 10 nF | =0.01 μ F |
| 104 | = 10×10^4 | = 100000 pF | = 100 nF | =0.1 μ F |
| 105 | = 10×10^5 | = 1000000 pF | = 1000 nF | =1 μ F |
| 106 | = 10×10^6 | = 10000000 pF | = 10000 nF | =10 μ F |

Capacitance Tolerance

In 3rd group of the part number-

F = $\pm 1\%$, G = $\pm 2\%$, H = $\pm 2.5\%$, I = $\pm 3.5\%$, J = $\pm 5\%$, K = $\pm 10\%$, L = $\pm 15\%$, M = $\pm 20\%$, N = $\pm 40\%$

Rated Voltage

In 4th group of the part number, one numeric digit and one letter (Ex.-2A) indicate DC voltage rating while two numeric digits (Ex.06) indicate AC voltage rating.

Rated Voltage Codification

| For AC Rated Voltage | | | | | | | | | | | | | |
|----------------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|
| 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 10 | 11 | 12 | 13 | 14 |
| 190 VAC | 250 VAC | 275 VAC | 305 VAC | 310 VAC | 440 VAC | 500 VAC | 600 VAC | 700 VAC | 63 VAC | 230 VAC | 330 VAC | 400 VAC | 450 VAC |

Packing Type

1: Bulk packing (original pitch)

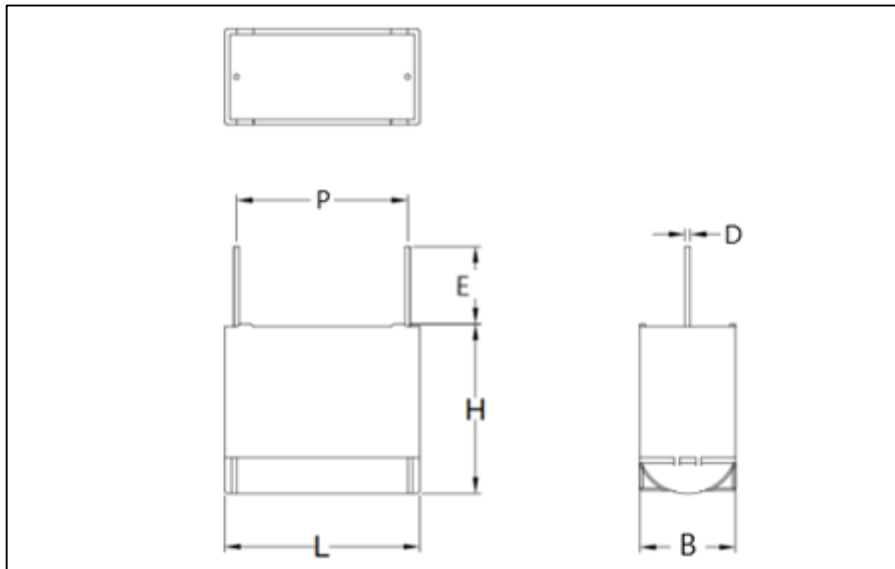
Reference Data

| | |
|---|--|
| CR | 1 μ F - 3.5 μ F |
| Tol. | \pm 5%, \pm 10% |
| Climatic testing class according to IEC 60068-1 | 40/85/21 |
| Maximum application temperature | 85°C |
| Reference standards | IS 2993 |
| Dielectric | Polypropylene film |
| Electrodes | Metallized |
| Construction | Mono |
| Safety Approval Mark | S3 |
| Class of Operation | Class-B |
| Rated Voltage(VR) | 450 VAC |
| Leads | Tinned wire |
| Encapsulation | Encased in flame retardant PBT (UL 94 V-0) FR Grade boxfilled with FR (UL 94 V-0) epoxy resin |

Marking example



Dimension Description



| Item Code | Cap. (µF) | Tolerance ** | B (±1.0) | H (±1.0) | L (±1.0) | *E (Min.) | Pitch (P) (±0.5) | D (±0.1) |
|------------------|-----------|--------------|----------|----------|----------|-----------|------------------|----------|
| 173 155 J 14 1 * | 1.5 | ±5% | 12.0 | 24.0 | 36.0 | 15.0 | 32.0 | 1.0 |
| 173 255 J 14 1 * | 2.5 | ±5% | 18.0 | 32.0 | 36.0 | 15.0 | 32.0 | 1.0 |
| 173 305 J 14 1 * | 3.0 | ±5% | 18.0 | 32.0 | 36.0 | 15.0 | 32.0 | 1.0 |

All dimensions in mm

*Short lead available on request

**Other tol. Available on request

Intermediate values available on request



Specific Data

| Description | Value |
|---|---------------------------------|
| Maximum tangent of loss angle (Tanδ) | ≤0.002 at 100Hz |
| Insulations resistance between leads at 500 VDC/60 sec. | ≥3000 MΩ @ µF |
| Voltage proof test between leads | 2 x VR for 2 sec. Routine test |
| | 2 x VR for 60 sec. Type test |
| Voltage proof test between lead to case | ≥2000 VAC for 60 sec. Type test |

Endurance Test

Voltage: 1.25 x VR

Temperature: 85°C

Duration: 2000 hours.

After The Test

ΔC/C : ≤ 3% of initial value.
 Tanδ : ≤0.002 at 50 Hz

Disclaimer

All our capacitors are designed, manufactured and tested to specifications. We strictly adhere to standards in procurement of materials, in the laid down manufacturing processes and consistently apply stringent process controls and testing parameters. This ensures that our capacitors always perform to the offered specifications.

Appropriateness of use in a specific circuit and fitness to a particular application however needs to be verified and its reliability through expected lifetime is required to be validated by the customer. Deki's responsibility is limited to ensuring that the capacitor performs as claimed in the specification/ data sheets provided by Deki. Deki specifically disclaims any implied warranties of fitness for any particular purpose. Liability, in any case is limited to the price paid for the capacitors.