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Radial Lead Type



Series : **SEPF**

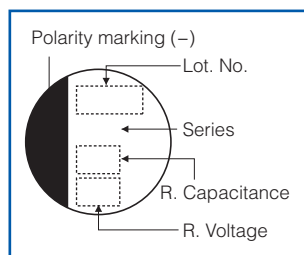
Features

- High voltage (35 V.DC max.)
- Large capacitance (1000 μ F max.)
- RoHS compliance, Halogen free

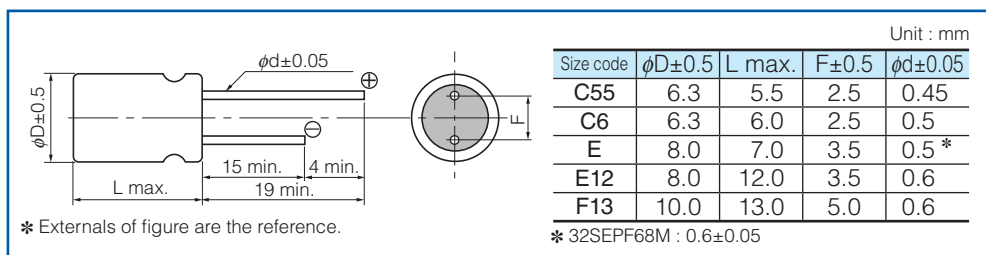
Specifications

| Size code | C55 | C6 | E7 | E12 | F13 |
|------------------------------------|--|---|---------------------------|---------------------------|-----------------------------|
| Category temperature range | -55 °C to +105 °C | | | | |
| Rated voltage range | 16 V.DC to 32 V.DC | | 16 V.DC to 35 V.DC | | |
| Rated capacitance range | 22 μ F to 150 μ F | 22 μ F to 180 μ F | 39 μ F to 270 μ F | 82 μ F to 560 μ F | 120 μ F to 1000 μ F |
| Capacitance tolerance | \pm 20 % (120 Hz / + 20 °C) | | | | |
| Leakage current | Please see the attached characteristics list | | | | |
| Dissipation factor (tan δ) | Please see the attached characteristics list | | | | |
| Endurance | +105 °C, 5000 h, rated voltage applied | | | | |
| | Capacitance change | Within \pm 20 % of the initial value | | | |
| | tan δ | \leq 150 % of the initial limit | | | |
| | DC leakage current | Within the initial limit | | | |
| Damp heat (Steady State) | +60 °C, 90 % to 95 %, 1000 h, No-applied voltage | | | | |
| | Capacitance change | Within \pm 20 % of the initial value | | | |
| | tan δ | \leq 150 % of the initial limit | | | |
| | DC leakage current | Within the initial limit (after voltage processing) | | | |

Marking



Dimensions (not to scale)



Characteristics list

| Series | Rated voltage (V.DC) | Rated capacitance (μ F) | Case size (mm) | | Size code | Specifications | | | | Part number |
|--------|----------------------|------------------------------|----------------|------|-----------|---|-------------------------------------|-----------------------------|-----------------------------|-------------|
| | | | ϕ D | L | | Ripple current* ¹ (mAr.m.s.) | ESR* ² (m Ω max.) | tan δ * ³ | LC* ⁴ (μ A) | |
| SEPF | 16 | 150 | 6.3 | 5.5 | C55 | 2590 | 30 | 0.12 | 480 | 16SEPF150M |
| | | 180 | 6.3 | 6.0 | C6 | 3300 | 22 | 0.12 | 576 | 16SEPF180M |
| | | 270 | 8.0 | 7.0 | E7 | 3300 | 22 | 0.12 | 864 | 16SEPF270M |
| | | 560 | 8.0 | 12.0 | E12 | 4950 | 14 | 0.12 | 1792 | 16SEPF560M |
| | | 1000 | 10.0 | 13.0 | F13 | 5400 | 12 | 0.12 | 3200 | 16SEPF1000M |
| | 20 | 120 | 6.3 | 6.0 | C6 | 3200 | 25 | 0.12 | 480 | 20SEPF120M |
| | | 180 | 8.0 | 7.0 | E7 | 3200 | 25 | 0.12 | 720 | 20SEPF180M |
| | | 390 | 8.0 | 12.0 | E12 | 4950 | 14 | 0.12 | 1560 | 20SEPF390M |
| | | 560 | 10.0 | 13.0 | F13 | 5400 | 12 | 0.12 | 2240 | 20SEPF560M |
| | | 25 | 56 | 6.3 | 6.0 | C6 | 2800 | 30 | 0.12 | 280 |
| | 82 | | 8.0 | 7.0 | E7 | 3000 | 28 | 0.12 | 410 | 25SEPF82M |
| | 180 | | 8.0 | 12.0 | E12 | 4650 | 16 | 0.12 | 900 | 25SEPF180M |
| | 330 | | 10.0 | 13.0 | F13 | 5000 | 14 | 0.12 | 1650 | 25SEPF330M |
| | 32 | 22 | 6.3 | 5.5 | C55 | 2400 | 35 | 0.12 | 140 | 32SEPF22M |
| | | 68 | 8.0 | 7.0 | E7 | 3200 | 25 | 0.10 | 435 | 32SEPF68M |
| | 35 | 22 | 6.3 | 6.0 | C6 | 2600 | 35 | 0.12 | 154 | 35SEPF22M |
| 39 | | 8.0 | 7.0 | E7 | 2800 | 30 | 0.12 | 273 | 35SEPF39M | |
| 82 | | 8.0 | 12.0 | E12 | 4000 | 20 | 0.12 | 574 | 35SEPF82M | |
| 120 | | 10.0 | 13.0 | F13 | 4400 | 18 | 0.12 | 840 | 35SEPF120M | |

*¹ Ripple current (100 kHz/ +105 °C), *² ESR (100 kHz to 300 kHz/+20 °C) *³ tan δ (120 Hz/+20 °C) *⁴ After 2 minutes

◆ Please refer to each page in this catalog for "Flow conditions" and "Taping specifications".

Frequency correction factor for ripple current

| Frequency | 120 Hz \leq f < 1 kHz | 1 kHz \leq f < 10 kHz | 10 kHz \leq f < 100 kHz | 100 kHz \leq f < 500 kHz |
|-------------|-------------------------|-------------------------|---------------------------|----------------------------|
| Coefficient | 0.05 | 0.3 | 0.7 | 1 |

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