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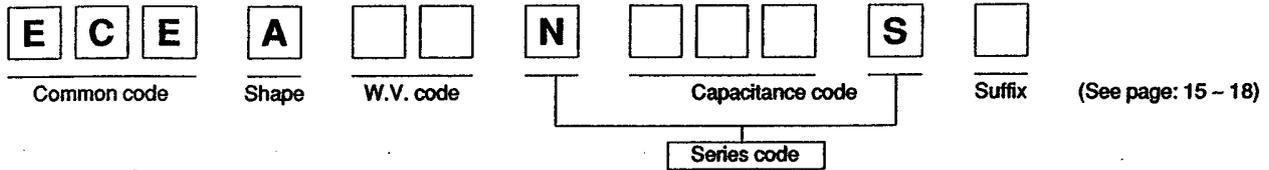
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Aluminum Electrolytic Capacitors Radial Lead Type

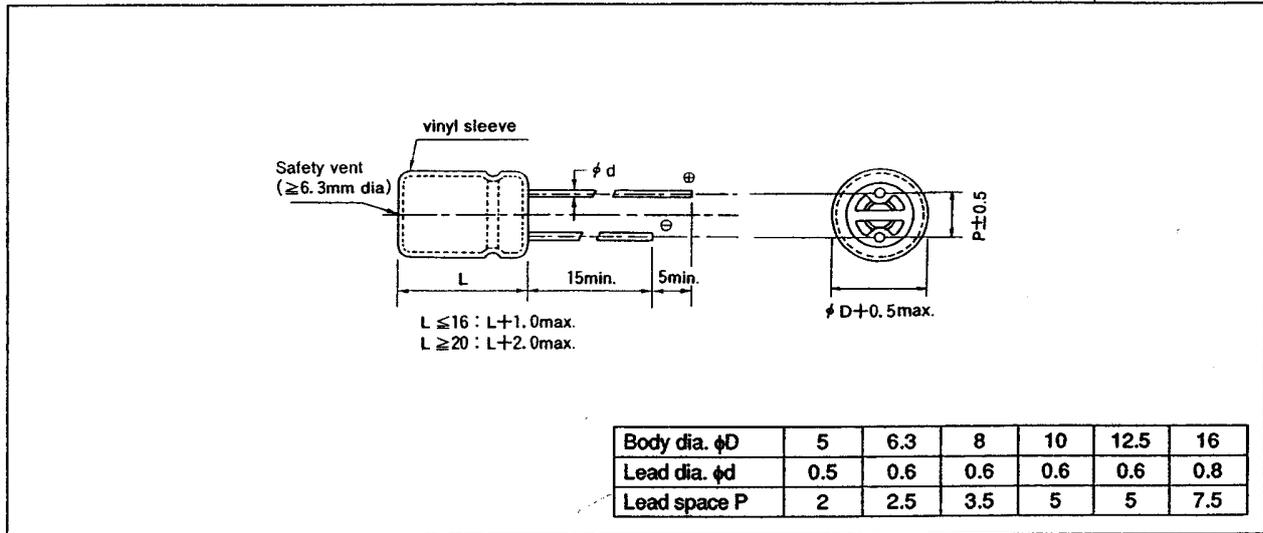
Bi-polar S Series

Part Number System



Dimensions

[mm]



Case Size Table

$\phi D \times L$ [mm]

| W.V. [V.DC] | 6.3 (0J) | 10 (1A) | 16 (1C) | 25 (1E) | 50 (1H) |
|-------------|------------|------------|------------|------------|------------|
| 0.47 (R47) | | | | | 5 × 11 |
| 1 (010) | | | | | 5 × 11 |
| 2.2 (2R2) | | | | | 5 × 11 |
| 3.3 (3R3) | | | | | 5 × 11 |
| 4.7 (4R7) | | | | 5 × 11 | 6.3 × 11.2 |
| 10 (100) | | | 5 × 11 | 5 × 11 | 8 × 11.5 |
| 22 (220) | | 5 × 11 | 6.3 × 11.2 | 6.3 × 11.2 | 10 × 12.5 |
| 33 (330) | 5 × 11 | 6.3 × 11.2 | 6.3 × 11.2 | 8 × 11.5 | 10 × 16 |
| 47 (470) | 6.3 × 11.2 | 6.3 × 11.2 | 8 × 11.5 | 10 × 12.5 | 10 × 20 |
| 100 (101) | 8 × 11.5 | 10 × 12.5 | 10 × 12.5 | 10 × 16 | 12.5 × 25 |
| 220 (221) | 10 × 12.5 | 10 × 16 | 10 × 20 | 12.5 × 25 | |
| 330 (331) | 10 × 16 | 10 × 20 | 12.5 × 20 | | |
| 470 (471) | 10 × 20 | 12.5 × 20 | 12.5 × 25 | | |
| 1000 (102) | 12.5 × 25 | 16 × 25 | 16 × 25 | | |

() shows W.V. & capacitance code

* 35, 63 and 100V working voltage products are available on request.

**Aluminium Electrolytic Capacitors
 Radial Lead Type**

Bi-polar S Series

Standard Products Table

| W.V. [V.DC] | Cap. [μ F] | Part No. | Cap. tol. [%] (120Hz/+20°C) | D.C.L. (+20°C/5 min.) [μ A] max. | tan δ (120Hz/+20°C) max. | Ripple current (120Hz/+85°C) [mA] rms max. | Dimensions [mm] | |
|----------------|--------------------|-------------|--------------------------------|---|---------------------------------------|---|--------------------|------|
| | | | | | | | ϕ D | L |
| 6.3 (8) | 33 | ECEA0JN330S | ± 20 | 9.2 | 0.30 | 80 | 5 | 11 |
| | 47 | ECEA0JN470S | | 11.8 | 0.30 | 100 | 6.3 | 11.2 |
| | 100 | ECEA0JN101S | | 21.9 | 0.30 | 160 | 8 | 11.5 |
| | 220 | ECEA0JN221S | | 44.5 | 0.30 | 250 | 10 | 12.5 |
| | 330 | ECEA0JN331S | | 65.3 | 0.30 | 320 | 10 | 16 |
| | 470 | ECEA0JN471S | | 91.8 | 0.30 | 380 | 10 | 20 |
| | 1,000 | ECEA0JN102S | | 192.0 | 0.30 | 530 | 12.5 | 25 |
| 10 (13) | 22 | ECEA1AN220S | ± 20 | 9.6 | 0.25 | 60 | 5 | 11 |
| | 33 | ECEA1AN330S | | 12.9 | 0.25 | 80 | 6.3 | 11.2 |
| | 47 | ECEA1AN470S | | 17.1 | 0.25 | 100 | 6.3 | 11.2 |
| | 100 | ECEA1AN101S | | 33.0 | 0.25 | 160 | 10 | 12.5 |
| | 220 | ECEA1AN221S | | 69.0 | 0.25 | 250 | 10 | 16 |
| | 330 | ECEA1AN331S | | 102.0 | 0.25 | 340 | 10 | 20 |
| | 470 | ECEA1AN471S | | 144.0 | 0.25 | 400 | 12.5 | 20 |
| | 1,000 | ECEA1AN102S | | 303.0 | 0.25 | 580 | 16 | 25 |
| 16 (20) | 10 | ECEA1CN100S | ± 20 | 7.8 | 0.20 | 40 | 5 | 11 |
| | 22 | ECEA1CN220S | | 13.5 | 0.20 | 70 | 6.3 | 11.2 |
| | 33 | ECEA1CN330S | | 18.8 | 0.20 | 90 | 6.3 | 11.2 |
| | 47 | ECEA1CN470S | | 25.5 | 0.20 | 110 | 8 | 11.5 |
| | 100 | ECEA1CN101S | | 51.0 | 0.20 | 200 | 10 | 12.5 |
| | 220 | ECEA1CN221S | | 108.6 | 0.20 | 320 | 10 | 20 |
| | 330 | ECEA1CN331S | | 161.4 | 0.20 | 405 | 12.5 | 20 |
| | 470 | ECEA1CN471S | | 228.6 | 0.20 | 480 | 12.5 | 25 |
| | 1,000 | ECEA1CN102S | | 483.0 | 0.20 | 700 | 16 | 25 |
| 25 (32) | 4.7 | ECEA1EN4R7S | ± 20 | 6.5 | 0.15 | 25 | 5 | 11 |
| | 10 | ECEA1EN100S | | 10.5 | 0.15 | 45 | 5 | 11 |
| | 22 | ECEA1EN220S | | 19.5 | 0.15 | 80 | 6.3 | 11.2 |
| | 33 | ECEA1EN330S | | 27.7 | 0.15 | 110 | 8 | 11.5 |
| | 47 | ECEA1EN470S | | 38.2 | 0.15 | 140 | 10 | 12.5 |
| | 100 | ECEA1EN101S | | 78.0 | 0.15 | 230 | 10 | 16 |
| | 220 | ECEA1EN221S | | 168.0 | 0.15 | 400 | 12.5 | 25 |
| 50 (63) | 0.47 | ECEA1HNR47S | ± 20 | 3.7 | 0.15 | 10 | 5 | 11 |
| | 1 | ECEA1HN010S | | 4.5 | 0.15 | 10 | 5 | 11 |
| | 2.2 | ECEA1HN2R2S | | 6.3 | 0.15 | 18 | 5 | 11 |
| | 3.3 | ECEA1HN3R3S | | 7.9 | 0.15 | 25 | 5 | 11 |
| | 4.7 | ECEA1HN4R7S | | 10.0 | 0.15 | 35 | 6.3 | 11.2 |
| | 10 | ECEA1HN100S | | 18.0 | 0.15 | 60 | 8 | 11.5 |
| | 22 | ECEA1HN220S | | 36.0 | 0.15 | 100 | 10 | 12.5 |
| | 33 | ECEA1HN330S | | 52.5 | 0.15 | 140 | 10 | 16 |
| | 47 | ECEA1HN470S | | 73.5 | 0.15 | 180 | 10 | 20 |
| | 100 | ECEA1HN101S | | 153.0 | 0.15 | 320 | 12.5 | 25 |