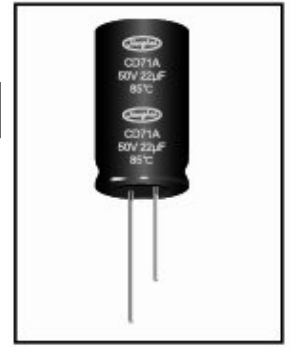
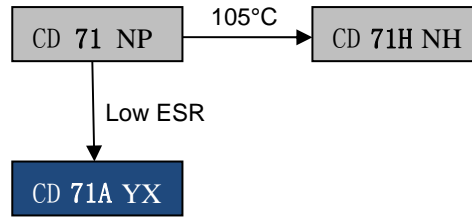


1000 h at 85°C

- Load life of 1000 hours at 85°C
- Bi-polar
- Low dissipation factor and excellent frequency characteristics
- For speaker crossover networks, Hi-Fi audio.



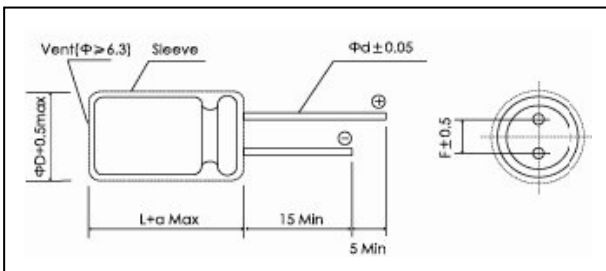
| Items | Characteristics | | | | | | | | | |
|------------------------------------|--|-----------|-------|-------|---------|------|------|---------|------|------|
| Operating Temperature Range(°C) | -40~ +85 | | | | | | | | | |
| Rated Voltage Range(V) | 50 | | | | | | | | | |
| Capacitance Tolerance (20°C,120Hz) | P grade:±15% D grade:±20% | | | | | | | | | |
| Leakage Current (μA) | After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.03CV+4μA, whichever is greater C:Nominal Capacitance(μF) V:Rated Voltage(V) | | | | | | | | | |
| Dissipation Factor (20°C, 120Hz) | <table border="1"> <thead> <tr> <th>Frequency</th> <th>1kHz</th> <th>10kHz</th> </tr> </thead> <tbody> <tr> <td>P grade</td> <td>0.05</td> <td>0.15</td> </tr> <tr> <td>D grade</td> <td>0.15</td> <td>0.50</td> </tr> </tbody> </table> | Frequency | 1kHz | 10kHz | P grade | 0.05 | 0.15 | D grade | 0.15 | 0.50 |
| | Frequency | 1kHz | 10kHz | | | | | | | |
| | P grade | 0.05 | 0.15 | | | | | | | |
| D grade | 0.15 | 0.50 | | | | | | | | |

| | Useful Life | Load Life | Endurance Test | Shelf Life |
|--|--|--|--|---|
| Lifetime | 2000h | 1000h | 1000h | 500h |
| Leakage Current | Not more than specified value | Not more than specified value | Not more than specified value | Not more than specified value |
| Capacitance Change | Within ±30% of initial value | Within ±20% of initial value | Within ±20% of initial value | Within ±20% of initial value |
| Dissipation Factor | Not more than 500% of specified value | Not more than 200% of specified value | Not more than 200% of specified value | Not more than 200% of specified value |
| Condition: Applied Voltage Applied Current Applied Temperature | U _R I _R 85°C | U _R I _R 85°C | U _R I _R = 0 85°C | U _R = 0 I _R = 0 85°C After test: U _R to be applied for 30min>24h before measurement |

Note: The life test excluding shelf life should be conducted with the polarity inverted every 250hrs.

Dimensions

mm



Lead spacing and diameter

| ΦD | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|----|-----|-----|-----|------|-----|----|
| F | 2.5 | 3.5 | 5.0 | | 7.5 | |
| Φd | 0.5 | 0.6 | | 0.8 | | |
| a | 1.5 | | 2.0 | | | |

Temperature Coefficient

| Temperature(°C) | +70 | +85 |
|-----------------|------|-----|
| Coefficient | 1.35 | 1 |

Ratings for CD 71A YX Series

P GRADE

| U _R (Surge Voltage) Code | Capacitance 20°C, 120Hz | Max ESR 20°C, 120Hz | Rated Ripple Current 85°C, 1kHz | Size ΦD×L | P/N |
|---|----------------------------|---------------------------|------------------------------------|--------------|---------------------|
| (v) | (μF) | (Ω) | (mArms) | (mm) | - |
| 50 (63) 1H | 1 | 66.35 | 60 | 10×20 | ECR1HYX010M□□100020 |
| | 1.5 | 44.23 | 76 | 10×20 | ECR1HYX1R5M□□100020 |
| | 2.2 | 30.16 | 96 | 12.5×20 | ECR1HYX2R2M□□125020 |
| | 3.3 | 20.11 | 144 | 16×25 | ECR1HYX3R3M□□160025 |
| | 4.7 | 14.12 | 192 | 16×25 | ECR1HYX4R7M□□160025 |
| | 6.8 | 9.76 | 228 | 16×31.5 | ECR1HYX6R8M□□160031 |
| | 10 | 6.63 | 264 | 18×40 | ECR1HYX100M□□180040 |

D GRADE

| U _R (Surge Voltage) Code | Rated Capacitance | Max ESR 20°C, 120Hz | Rated Ripple Current 85°C, 1kHz | Size ΦD×L | P/N |
|---|-------------------|---------------------------|------------------------------------|--------------|---------------------|
| (v) | (μF) | (Ω) | (mArms) | (mm) | - |
| 50 (63) 1H | 1 | 199.04 | 27 | 6.3×11.5 | ECR1HYX010M□□063011 |
| | 1.5 | 132.70 | 30 | 6.3×11.5 | ECR1HYX1R5M□□063011 |
| | 2.2 | 90.47 | 34 | 8×11.5 | ECR1HYX2R2M□□080011 |
| | 3.3 | 60.32 | 60 | 8×11.5 | ECR1HYX3R3M□□080011 |
| | 4.7 | 42.35 | 76 | 8×11.5 | ECR1HYX4R7M□□080011 |
| | 6.8 | 29.27 | 94 | 10×12.5 | ECR1HYX6R8M□□100012 |
| | 10 | 19.90 | 112 | 10×16 | ECR1HYX100M□□100016 |
| | 15 | 13.27 | 138 | 10×20 | ECR1HYX150M□□100020 |
| | 22 | 9.05 | 234 | 12.5×20 | ECR1HYX220M□□125020 |
| | 33 | 6.03 | 288 | 12.5×25 | ECR1HYX330M□□125025 |
| | 47 | 4.23 | 360 | 16×31.5 | ECR1HYX470M□□160031 |
| | 68 | 2.93 | 450 | 16×31.5 | ECR1HYX680M□□160031 |
| | 100 | 1.99 | 540 | 16×31.5 | ECR1HYX101M□□160031 |

Customer products are available on request.