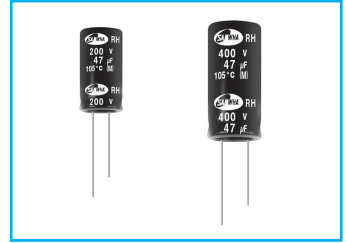
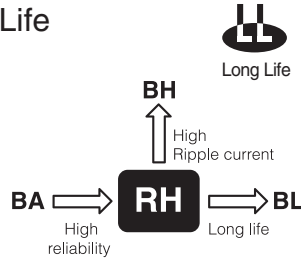


RH

For PSU High Ripple Current, Long Life Series

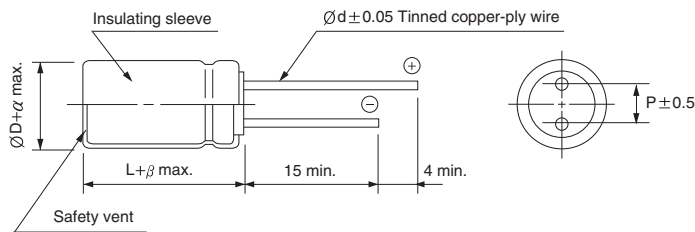
- High ripple current
- High reliability withstanding 5000 hours load life at 105°C
- Suited for ballast application
- Complied to the RoHS directive



| Item | Characteristics | | | | | | | | |
|---|--|-----------------------------------|------|------|------|--------------|------|------|------|
| Operating temperature range | WV | 160 ~ 450 | | | | 500 | | | |
| | Temperature range | -40 ~ +105°C | | | | -25 ~ +105°C | | | |
| Leakage current max. | I = 0.02CV + 15µA (after 5 minutes) | | | | | | | | |
| Capacitance tolerance | ±20% at 120Hz, 20°C | | | | | | | | |
| Dissipation factor max. (at 120Hz, 20°C) | WV | 160 | 200 | 250 | 350 | 400 | 420 | 450 | 500 |
| | tanδ | 0.15 | 0.15 | 0.15 | 0.20 | 0.24 | 0.24 | 0.24 | 0.24 |
| Low temperature characteristics (Impedance ratio at 120Hz) | WV | 160 | 200 | 250 | 350 | 400 | 450 | 500 | |
| | Z-25°C/Z+20°C | 3 | 3 | 3 | 4 | 6 | 6 | 6 | |
| | Z-40°C/Z+20°C | 4 | 4 | 4 | 8 | 10 | 10 | - | |
| Load life | After an application of DC bias voltage plus the rated AC ripple current for 5000 hours at 105°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage. | | | | | | | | |
| | Leakage current | Less than specified value | | | | | | | |
| | Capacitance change | Within ±20% of initial value | | | | | | | |
| | tanδ | Less than 200% of specified value | | | | | | | |
| Shelf life (at 105°C) | After 1000 hours no load test, leakage current, capacitance and tanδ are same as load life value. The measurement shall be performed at 20°C by the KS C IEC 60384 - 4 | | | | | | | | |

● DRAWING

Unit : mm



| ØD | 10 | 12.5 | 16 | 18 | 20 | 22 |
|----|-----|------|-----|-----|------|------|
| P | 5.0 | 5.0 | 7.5 | 7.5 | 10.0 | 10.0 |
| Ød | 0.6 | 0.6 | 0.8 | 0.8 | 0.8 | 1.0 |
| β | 2.0 | | | 3.0 | | |
| α | 0.5 | | | 1.0 | | |

● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| µF | Frequency | 60Hz | 120Hz | 1kHz | 10kHz | 50kHz | 100kHz ≤ |
|----------|-----------|------|-------|------|-------|-------|----------|
| ~ 4.7 | | 0.25 | 0.30 | 0.60 | 0.80 | 0.90 | 1.00 |
| 6.8 ~ 15 | | 0.30 | 0.40 | 0.70 | 0.90 | 0.95 | 1.00 |
| 22 ~ | | 0.40 | 0.50 | 0.80 | 0.90 | 0.95 | 1.00 |

MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

RH series

● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| μF \diagdown WV | 160 | | 200 | | 250 | | 350 | |
|----------------------------|-----------|------|-----------|------|-----------|------|-----------|------|
| 4.7 | | | | | | | 10 × 16 | 200 |
| 6.8 | | | 10 × 12.5 | 120 | 10 × 12.5 | 120 | 10 × 16 | 200 |
| 10 | 10 × 16 | 250 | 10 × 16 | 300 | 10 × 20 | 300 | 10 × 20 | 280 |
| 15 | | | | | 10 × 12.5 | 260 | | |
| 22 | 10 × 16 | 360 | 10 × 16 | 360 | 12.5 × 20 | 600 | 12.5 × 20 | 350 |
| | 10 × 20 | 500 | 10 × 20 | 500 | | | | |
| 33 | 10 × 20 | 500 | 10 × 20 | 500 | 12.5 × 20 | 600 | 16 × 20 | 500 |
| | | | 12.5 × 20 | 600 | | | | |
| 47 | 12.5 × 20 | 600 | 12.5 × 20 | 660 | 12.5 × 25 | 720 | 16 × 25 | 660 |
| 68 | 12.5 × 25 | 600 | 12.5 × 25 | 760 | 16 × 25 | 920 | 16 × 31.5 | 800 |
| 82 | 16 × 20 | 760 | 16 × 20 | 880 | 16 × 25 | 1120 | 18 × 31.5 | 920 |
| 100 | 16 × 25 | 1100 | 16 × 25 | 1120 | 16 × 31.5 | 1200 | 18 × 31.5 | 1020 |
| 120 | 16 × 25 | 1180 | 16 × 31.5 | 1200 | 18 × 25 | 1200 | 18 × 31.5 | 1150 |
| 150 | 16 × 31.5 | 1300 | 16 × 31.5 | 1300 | 18 × 25 | 1250 | 18 × 40 | 1250 |
| | | | | | 18 × 31.5 | 1250 | | |
| 220 | | | | | 18 × 35.5 | 1600 | | |

| μF \diagdown WV | 400 | | 420 | | 450 | | 500 | |
|----------------------------|-----------|------|-----------|------|-----------|------|-----------|------|
| 1.0 | 10 × 12.5 | 90 | | | | | | |
| 2.2 | 10 × 12.5 | 100 | 10 × 12.5 | 100 | 10 × 12.5 | 100 | | |
| 3.3 | 10 × 12.5 | 128 | 10 × 12.5 | 128 | 10 × 12.5 | 128 | | |
| 4.7 | 10 × 16 | 180 | 10 × 16 | 180 | 10 × 20 | 180 | | |
| 6.8 | 10 × 16 | 200 | 10 × 16 | 200 | 10 × 20 | 200 | | |
| 10 | 10 × 20 | 280 | 10 × 20 | 280 | 12.5 × 20 | 300 | 12.5 × 20 | 300 |
| | | | | | | | 12.5 × 25 | 360 |
| 15 | 12.5 × 16 | 280 | | | | | 12.5 × 25 | 360 |
| 22 | 12.5 × 25 | 430 | 12.5 × 25 | 430 | 12.5 × 20 | 430 | 16 × 25 | 420 |
| | | | | | 16 × 25 | 550 | | |
| 33 | 16 × 25 | 640 | 16 × 25 | 660 | 16 × 31.5 | 700 | 16 × 31.5 | 560 |
| 47 | 16 × 31.5 | 750 | 16 × 31.5 | 750 | 16 × 31.5 | 700 | 18 × 35.5 | 700 |
| 56 | | | 18 × 25 | 750 | 18 × 25 | 750 | 18 × 35.5 | 740 |
| 68 | 16 × 31.5 | 880 | 16 × 31.5 | 900 | 18 × 25 | 900 | 18 × 35.5 | 900 |
| | | | | | 18 × 31.5 | 1000 | | |
| 82 | 16 × 35.5 | 1000 | 16 × 35.5 | 1000 | 18 × 31.5 | 1035 | 18 × 40 | 1030 |
| | | | | | 18 × 35.5 | 1100 | | |
| 100 | 18 × 35.5 | 1120 | 18 × 35.5 | 1170 | 18 × 35.5 | 1500 | 18 × 45 | 1100 |
| | | | | | | | 20 × 41 | 1200 |
| 120 | 18 × 40 | 1250 | 18 × 40 | 1280 | 18 × 40 | 1500 | | |
| 150 | 20 × 41 | 1380 | 20 × 41 | 1500 | 20 × 41 | 1796 | | |
| 180 | 20 × 41 | 1450 | 20 × 41 | 1600 | 22 × 45 | 1800 | | |

— Ripple current (mA rms) at 105°C, 100kHz
 — Case size $\varnothing D \times L$ (mm)