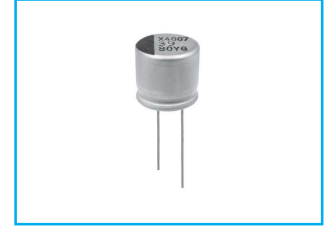




**EN:** This Datasheet/Document is presented by the manufacturer.

Please visit our website for pricing and availability at [www.hestore.hu](http://www.hestore.hu).

## YG Lead type, High Temperature Series

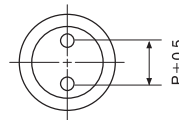
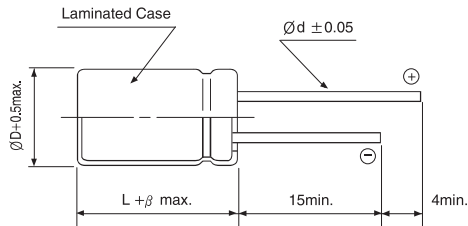


- High temperature range, for 125°C use
- Complied to the RoHS directive
- AEC-Q200 compliant : Please contact us for more details.

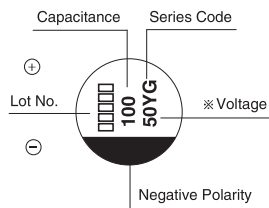
| Item                                                           | Characteristics                                                                                                                                                                                                                        |      |      |                                       |      |          |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------------------------------------|------|----------|
| Operating temperature range                                    | -55 ~ +125°C                                                                                                                                                                                                                           |      |      |                                       |      |          |
| Leakage current max.                                           | I = 0.01CV or 3μA whichever is greater (after 2 minutes)                                                                                                                                                                               |      |      |                                       |      |          |
| Capacitance tolerance                                          | ±20% at 120Hz, 20°C                                                                                                                                                                                                                    |      |      |                                       |      |          |
| Dissipation factor max.<br>(at 120Hz, 20°C)                    | WV                                                                                                                                                                                                                                     | 16   | 25   | 35                                    | 50   | 63 ~ 100 |
|                                                                | tanδ                                                                                                                                                                                                                                   | 0.16 | 0.14 | 0.12                                  | 0.10 | 0.08     |
| Low temperature characteristics<br>(Impedance ratio at 100kHz) | Z ( -25°C ) / Z ( +20°C ) ≤ 1.5<br>Z ( -55°C ) / Z ( +20°C ) ≤ 2.0                                                                                                                                                                     |      |      |                                       |      |          |
| Load life                                                      | After an application of DC bias voltage plus the rated AC ripple current for 4000 hours at 125°C. The measurement shall meet the following limits. The DC voltage plus the peak AC voltage combined must not exceed the rated voltage. |      |      |                                       |      |          |
|                                                                | Capacitance change                                                                                                                                                                                                                     |      |      | Within ±30% of initial value          |      |          |
|                                                                | tanδ                                                                                                                                                                                                                                   |      |      | Less than 200% of the specified value |      |          |
|                                                                | ESR                                                                                                                                                                                                                                    |      |      | Less than 200% of the specified value |      |          |
|                                                                | Leakage current                                                                                                                                                                                                                        |      |      | Less than specified value             |      |          |
| Shelf life(at 125°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



| Size    | ØD   | L    | P   | Ød   | β   |
|---------|------|------|-----|------|-----|
| 6.3×7.5 | 6.3  | 7.5  | 2.5 | 0.45 | 1.5 |
| 8×9.5   | 8    | 9.5  | 3.5 | 0.60 | 1.5 |
| 10×9.5  | 10.0 | 9.5  | 5.0 | 0.60 | 1.5 |
| 10×12   | 10.0 | 12.0 | 5.0 | 0.60 | 1.5 |



### PACKING & TAPING (See page 82~84)

# CONDUCTIVE POLYMER HYBRID ALUMINUM ELECTROLYTIC CAPACITORS

**YG** series

## ● DIMENSIONS & MAXIMUM PERMISSIBLE RIPPLE CURRENT

| $\mu\text{F}$ \ WV | 16      |    |      | 25      |    |      | 35      |    |      |
|--------------------|---------|----|------|---------|----|------|---------|----|------|
| 47                 |         |    |      |         |    |      | 6.3×7.5 | 35 | 1400 |
| 68                 |         |    |      | 6.3×7.5 | 30 | 1400 | 6.3×7.5 | 35 | 1400 |
| 100                |         |    |      | 6.3×7.5 | 30 | 1400 | 8×9.5   | 27 | 1600 |
| 150                | 6.3×7.5 | 27 | 1450 | 8×9.5   | 27 | 1600 | 8×9.5   | 27 | 1600 |
|                    |         |    |      |         |    |      | 10×9.5  | 20 | 2000 |
| 220                |         |    |      | 8×9.5   | 27 | 1600 |         |    |      |
| 270                | 8×9.5   | 22 | 1700 | 10×9.5  | 20 | 2000 | 10×9.5  | 20 | 2000 |
| 330                |         |    |      | 10×9.5  | 20 | 2000 | 10×12   | 17 | 2260 |
| 470                | 10×9.5  | 18 | 2100 | 10×12   | 16 | 2260 |         |    |      |
| 560                | 10×12   | 14 | 2320 |         |    |      |         |    |      |

| $\mu\text{F}$ \ WV | 50      |    |      | 63      |    |      | 80     |    |      |
|--------------------|---------|----|------|---------|----|------|--------|----|------|
| 10                 |         |    |      | 6.3×7.5 | 80 | 900  |        |    |      |
| 15                 | 6.3×7.5 | 40 | 1100 |         |    |      |        |    |      |
| 22                 |         |    |      | 6.3×7.5 | 80 | 900  | 8×9.5  | 45 | 1100 |
|                    |         |    |      | 8×9.5   | 40 | 1100 |        |    |      |
| 33                 | 6.3×7.5 | 40 | 1100 | 8×9.5   | 40 | 1100 |        |    |      |
|                    | 8×9.5   | 30 | 1250 | 10×9.5  | 30 | 1400 |        |    |      |
| 39                 |         |    |      |         |    |      | 10×9.5 | 35 | 1200 |
| 47                 | 8×9.5   | 30 | 1250 |         |    |      | 10×12  | 32 | 1400 |
| 56                 | 10×9.5  | 25 | 1600 | 10×9.5  | 30 | 1400 |        |    |      |
| 68                 | 10×9.5  | 25 | 1600 | 10×12   | 22 | 1650 |        |    |      |
| 100                | 10×9.5  | 25 | 1600 |         |    |      |        |    |      |
| 150                | 10×12   | 19 | 1820 |         |    |      |        |    |      |

| $\mu\text{F}$ \ WV | 100    |    |      |
|--------------------|--------|----|------|
| 10                 | 8×9.5  | 60 | 900  |
| 15                 | 10×9.5 | 45 | 1120 |
| 18                 | 10×12  | 40 | 1220 |


 Ripple current (mA rms) at 125°C, 100kHz  
 ESR (mΩ) at 20°C, 100kHz  
 Case size  $\varnothing D \times L$  (mm)

## ● FREQUENCY COEFFICIENT OF PERMISSIBLE RIPPLE CURRENT

| Frequency   | 120Hz | 1kHz | 10kHz | 100kHz |
|-------------|-------|------|-------|--------|
| Coefficient | 0.05  | 0.30 | 0.70  | 1.00   |