# DB.GB series

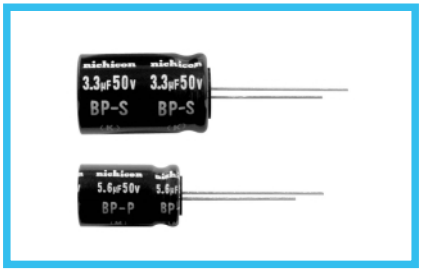
Bi-Polarized, For Speaker Network

For Audio Use | Bi-polarized | Anti-Solvent Feature

- Bi-polarized series.
- Designed specifically for crossover networks in Hi-Fi sound systems.
- Compliant to the RoHS directive (2002/95/EC).

- GB series

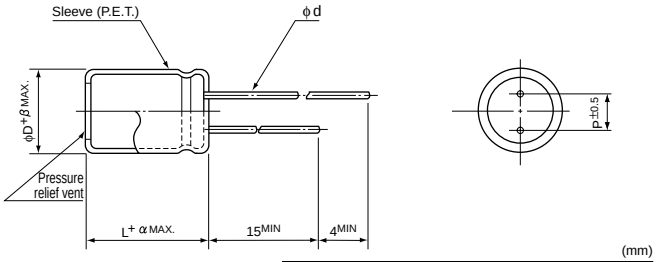
Products which are scheduled to be discontinued.
Not recommended for new designs




## ■Specifications

| Performance Characteristics | DB series | GB series |
|---|---|---|
| Category Temperature Range | −40 to +85°C | −40 to +85°C |
| Rated Voltage Range | 50V | 50V |
| Rated Capacitance Tolerance | ±20% at 1kHz | ±10% at 1kHz |
| Leakage Current (After 5 minutes' application of rated voltage) | Leakage current is not more than 0.03CV or 3 (μA), whichever is greater. | |
| Tangent of loss angle (tan δ) (1 kHz) (5 kHz) | 0.10 or less<br>0.15 or less | 0.05 or less<br>0.05 or less |
| Allowable Continuous Current (8Ω - fc) | Value in table or less | Value in table or less |
| Marking | Printed with white color letter on black sleeve. | |

## ■Radial Lead Type




(mm)

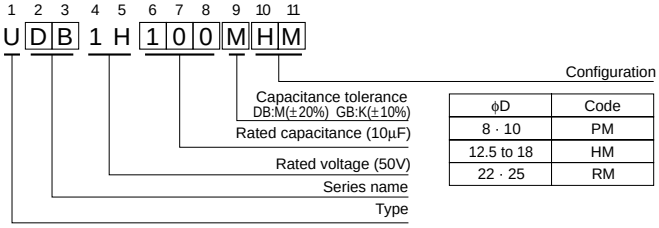
| φD | 8 | 10 | 12.5 | 16 | 18 | 22 | 25 |
|---|---|---|---|---|---|---|---|
| P | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10.0 | 12.5 |
| φd | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 1.0 | 1.0 |
| α | 1 | 1 | 1 | 1 | 1 | 2 | 2 |
| β | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 1 | 1 |

## ■Dimensions

| Cap. (μF) | Code | DB φD×L (mm) 1H (50V) | GB φD×L (mm) 1H (50V) | Rated ripple (mArms) Frequency (Hz) | DB | GB |
|---|---|---|---|---|---|---|
| **1** | 010 | 8×11.5 | 10×20 | 20k | 205 | 760 |
| **1.5** | 1R5 | 8×11.5 | 12.5×20 | 13k | 245 | 800 |
| **2.2** | 2R2 | 10×12.5 | 12.5×20 | 9k | 320 | 820 |
| **3.3** | 3R3 | 10×16 | 16×25 | 6k | 400 | 850 |
| **4.7** | 4R7 | 10×20 | 16×25 | 4.2k | 480 | 890 |
| **6.8** | 6R8 | 12.5×20 | 16×31.5 | 2.9k | 540 | 920 |
| **10** | 100 | 12.5×25 | 18×35.5 | 2k | 600 | 970 |
| **15** | 150 | 12.5×25 | 22×40 | 1.3k | 660 | 1040 |
| **22** | 220 | 16×25 | 22×40 | 900 | 740 | 1060 |
| **33** | 330 | 16×31.5 | 25×40 | 600 | 800 | 1120 |
| **47** | 470 | 18×35.5 | | 420 | 1020 | |
| **68** | 680 | 22×40 | | 290 | 1200 | |

• Please refer to page 20 about the end seal configulation.

## Type numbering system (Example : DB series 50V 10μF)




| φD | Code |
|---|---|
| 8 · 10 | PM |
| 12.5 to 18 | HM |
| 22 · 25 | RM |

Please refer to page 20, 21, 22 about the formed or taped product spec.
Please refer to page 4 for the minimum order quantity.

# Mouser Electronics

Authorized Distributor

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Nichicon:

UGB1H100KHM UGB1H150KRM UGB1H1R5KHM UGB1H220KRM UGB1H2R2KHM UGB1H330KRM UGB1H3R3KHM UGB1H4R7KHM UGB1H6R8KHM UDB2A2R7KPAANATD UGB1H010KHM