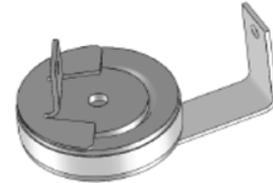
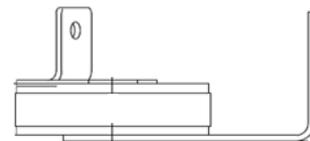


**Features**

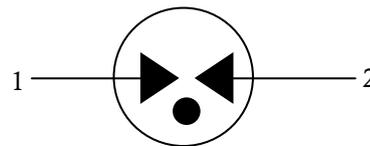
- High Current Handling Capability 40,000A @ 8/20 $\mu$ s
- Low Capacitance and Insertion Loss
- Quick Response and Long Service Life
- Moisture sensitivity level: Level 1

**Exterior**

**Application information**

- POWER

**Package (Top View)**

**Agency Approvals**

| Icon  | Description                                 |
|---|---|
| <b>RoHS</b>   | Compliance with 2011/65/EU                  |
| <b>HF</b>   | Compliance with IEC61249-2-21:2003          |
|  | Mean lead free                              |
|  | Compliance with UL 1449.Certificate E337906 |

**Schematic Symbol**

**Electrical Parameter**

|                                      |                      |                                |                  |
|--------------------------------------|----------------------|--------------------------------|------------------|
| DC Breakdown Voltage <sup>1)2)</sup> | 100V/s               | 550-800                        | V                |
| Impulse Spark-over Voltage           | At1.2/50 $\mu$ s 6KV | for 99 % of measured values    | $\leq 1500$      |
|                                      | At1.2/50 $\mu$ s 6KV | Typical values of distribution | $\leq 1500$      |
| Max. continuous operating voltage    | $U_c$                | 255                            | V <sub>rms</sub> |
| Nominal discharge current            | 8/20 $\mu$ s         | $I_n=20,000$                   | A                |
| Maximum discharge current            | 8/20 $\mu$ s         | $I_{max}=40,000$               | A                |
| Follow current at 50/60 Hz           | At 255V              | 100                            | A <sub>rms</sub> |
| Arc Voltage                          | At 1A                | $\sim 24$                      | V                |
| Insulation Resistance                | DC=100V              | $\geq 1$                       | G $\Omega$       |
| Capacitance at 1MHz                  | VDC=0.5V             | $\leq 4$                       | pF               |
| Weight                               |                      | $\sim 10$                      | g                |
| Operating And Storage Temperature    |                      | -40-125                        | $^{\circ}$ C     |

1) At delivery AQL0.65 level II ISO 2859

2) In ionized mode

3) Terms and waveforms in accordance with IEC 61643-11

## Gas Discharge Tube

Version: A0 2020-4-27

**Part Numbering System**

B      UB      601      M      - 03  
 (1)    (2)      (3)      (4)      (5)

- (1) Bencent  
 (2) UB means Surge Rating  $8/20\mu\text{s}@I_{\text{max}}=40\text{KA}$   
 (3) DC Breakdown Voltage, e.g.,  $601=60 \times 10^1\text{V}=600\text{V}$   
 (4) Tolerance of DC Breakdown Voltage,  $M=+-20\%$ ,  
 $N=+-30\%$ , the Specific tolerance is decided by the table of  
 “Electrical Parameter”  
 (5) “-03” means the special structure of this type.

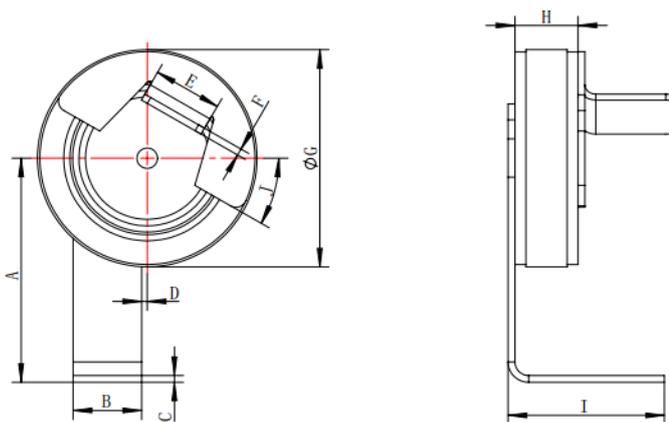
**Product Characteristics**

|                 |                       |
|-----------------|-----------------------|
| Lead Material   | Copper                |
| Body Material   | Ceramics              |
| Terminal Finish | 100% Matte-Tin Plated |

**Environmental Reliability Characteristics**

| Testing items                 | Technical standards                                     |
|-------------------------------|---|
| High Temperature Storage Test | Temperature: 125°C<br>Time: 2H                          |
| Low Temperature Storage Test  | Temperature: -40°C<br>Time: 2H                          |
| Vibration                     | Frequency: 10-500Hz<br>Amplitude: 0.15mm<br>Time: 45min |

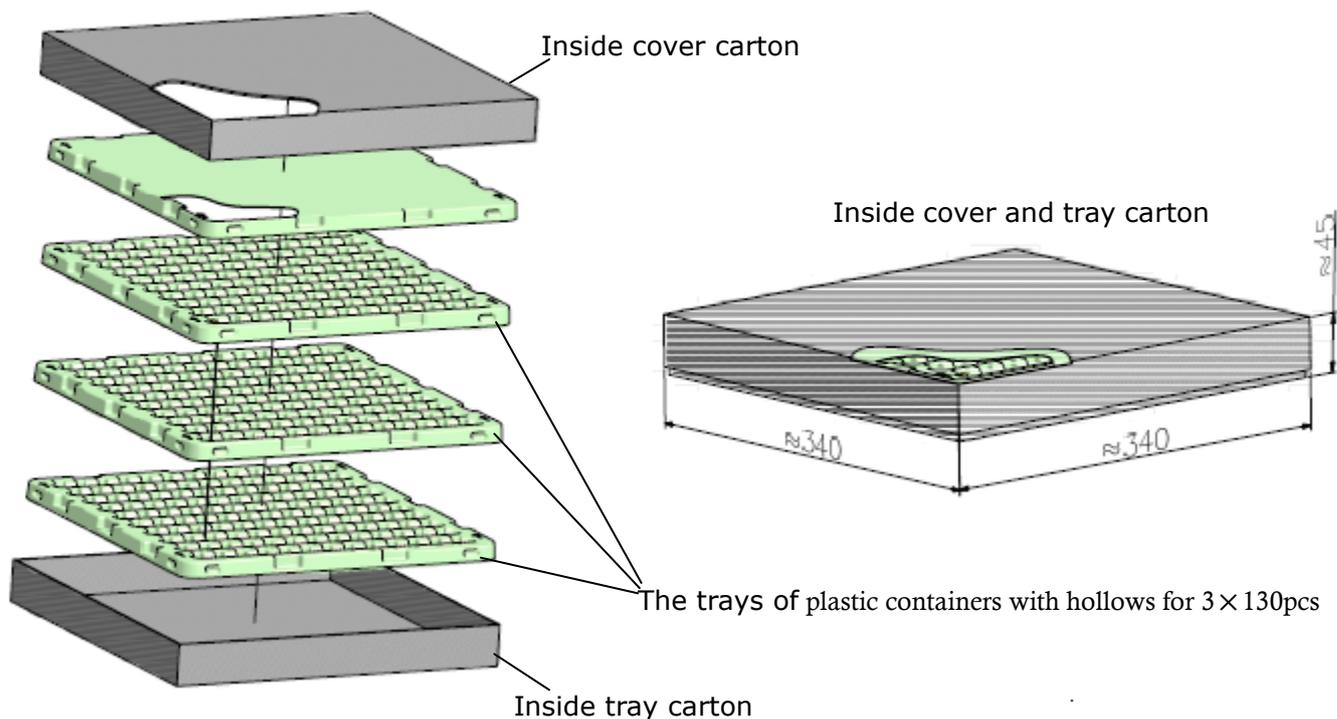
Note: Up-screen program can be specified by customer's request via contacting Bencent service

**Product Dimensions**


| REF | mm                | inch                  |
|-----|-------------------|-----------------------|
| A   | (16.5)            | (0.65)                |
| B   | $5 \pm 0.1$       | $0.197 \pm 0.004$     |
| C   | $0.5 \pm 0.1$     | $0.02 \pm 0.004$      |
| D   | (0.4)             | (0.157)               |
| E   | $5 \pm 0.1$       | $0.197 \pm 0.004$     |
| F   | $0.5 \pm 0.1$     | $0.02 \pm 0.004$      |
| G   | $\Phi 16 \pm 0.3$ | $\Phi 0.63 \pm 0.012$ |
| H   | $4.6 \pm 0.3$     | $0.181 \pm 0.012$     |
| I   | $11.4 \pm 0.3$    | $0.449 \pm 0.012$     |
| J   | 30°               |                       |

Package Box Information

| Outline | Plastic containers (PCS) | Inside Cover and tray carton (PCS) | Outside carton (PCS) | Carton Size(mm) |     |     |
|---------|--------------------------|------------------------------------|----------------------|-----------------|-----|-----|
|         |                          |                                    |                      | L               | W   | H   |
| Box     | 130                      | 390                                | 1560                 | 360             | 360 | 220 |



**Remarks:** The outside carton has four inside cover and tray cartons for 4 × 390 pcs