

**AG - Serie - 6.000 HRS - 85°C**
**Applications**

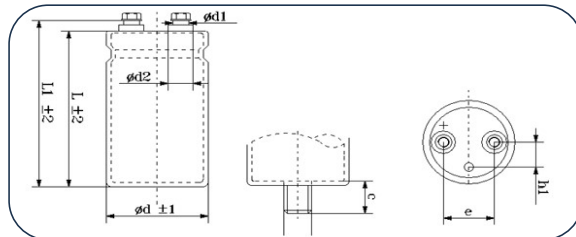
|                                 |                                                |                                                |
|---------------------------------|------------------------------------------------|------------------------------------------------|
| <i>Screw terminal</i>           | <i>High Voltage</i>                            | <i>Extended temperature range -40°C + 85°C</i> |
| <i>Professional Application</i> | <i>Optimized designed available on request</i> | <i>Very High Reliability</i>                   |

| Case Code | DxL (mm) | L1 (mm) | h1 | d1 | d2 | e    |
|-----------|----------|---------|----|----|----|------|
| BB        | 51 x 83  | 89      | 13 | 13 | 18 | 22,2 |

| Connecting screw |             |        |
|------------------|-------------|--------|
| Thread           | Torque (Nm) | Lenght |
| M5               | 2           | 10     |

| Mounting screw |             |        |
|----------------|-------------|--------|
| Thread         | Torque (Nm) | Lenght |
| M12            | 10          | 16     |

All dimensions in mm, Torque in Nm



|                |                                     |           |                                                           |           |                |           |                      |
|----------------|-------------------------------------|-----------|-----------------------------------------------------------|-----------|----------------|-----------|----------------------|
| Ordering Code: | <b>AGX681M550BB1</b>                |           |                                                           |           |                |           | Plain Style          |
| <b>AG</b>      | <b>(U)</b>                          | <b>X</b>  | <b>681</b>                                                | <b>M</b>  | <b>550</b>     | <b>BB</b> | <b>1</b>             |
| Series         | U=mounting stud<br>Void=flat bottom | Terminals | C with multiplying factor:<br>1=x10, 2=x100,<br>3=x1.000, | Tolerance | V <sub>R</sub> | Size      | 1=sleeve 0=no sleeve |

**Electrical Parameters**

|                               |                                           |
|-------------------------------|-------------------------------------------|
| <b>Capacitance:</b>           | 680 uF (25°C 100Hz)                       |
| <b>Capacitance tolerance:</b> | M=+/-20%                                  |
| <b>Rated Voltage:</b>         | 550 Vdc                                   |
| <b>Surge Voltage:</b>         | 577 Vdc                                   |
| <b>ESR<sub>Max</sub>:</b>     | 284 mΩ (25°C 100Hz)                       |
| <b>Tand<sub>Max</sub>:</b>    | 18 % (25°C 100Hz)                         |
| <b>I<sub>ripple</sub>:</b>    | 3,44 A (85°C 100Hz)                       |
| <b>I<sub>leakage</sub></b>    | ≤0,004xCxV mA (rated voltage, 25°C, 5min) |

**Expected lifetime**

6000hrs@85°C, Rated Voltage, Ripple,  
20000hrs@45°C, Rated Voltage, Ripple,  
End of life criteria:  
Dcap≤30%  
DESR≤3XESRMax  
Ileakage≤IleakageMax

Ripple=IripplemA (rated voltage, 25°C, 5min)xKtxKf      Iripple determination

| Frequency | Kf   |
|-----------|------|
| 50        | 0,78 |
| 100       | 1,00 |
| 120       | 1,02 |
| 200       | 1,06 |
| 300       | 1,08 |
| 400       | 1,09 |
| 500       | 1,32 |
| >1000     | 1,37 |

| Temperature | Kt   |
|-------------|------|
| 40          | 1,80 |
| 55          | 1,65 |
| 65          | 1,45 |
| 75          | 1,25 |
| 85          | 1    |
| 95          | -    |
| 105         | -    |

**Special Features**

Power Electronics, Professional Supplies, Medical devices,  
Energy Storage, UPS, Traction

*Please contact our Technical Service for more information*

| Packaging | Qty/box | Weight/box |
|-----------|---------|------------|
| BB        | 30      | 6-9        |

All weights in kg

**NOTE:**


Quality and Environmental Integrated System up to EN ISO 14001:2004 EN ISO 9001: 2008

ITELCOND s.r.l. – Tel. +390290362995

Commercial information e-mail: [sales@itelcond.it](mailto:sales@itelcond.it)

Technical information e-mail: [qualityassurance@itelcond.it](mailto:qualityassurance@itelcond.it)

For Terms and Conditions see our website [www.itelcond.it](http://www.itelcond.it)



