



Axial terminals

Low mounting height

High CV product

Long life 2000 h @ 125 °C

Low temperature –55°C

RoHS compliant
REACH compliant

Features

- All contacts welded
- High temp 125°C
- Long useful life

Applications

- Automotive
- Inverter/drives
- Laser
- Industrial

**Different case sizes, voltages
and capacitance combinations are
available on request.
Also in small lots.**

General specifications

| Items | | Characteristics |
|---|---------------------------------------|--|
| Rated capacitance range C_R | | 150... 82.000 μF |
| Capacitance tolerance | | $\pm 20\%$ |
| Rated voltage range U_R | | 16 ... 63 V |
| Surge voltage U_S | | $U_S = 1,15 U_R$ |
| Max. reverse voltage | | 2 V |
| Category temperature range | | - 55°C ... + 125 °C |
| Leakage current I_L after 5 min @ U_R | | $\leq 0,004 * C_R [\mu F] * U_R [V] + 6 \mu A [\mu A]$ |
| Useful life | 2000 h @ 125 °C ; U_R ; I_{R-} | Requirements $\Delta C/C \leq 30\%$ of initial value ESR $\leq 300\%$ of specified limit $I_L \leq$ specified limit |
| Endurance test | 1000 h @ 125 °C , U_R | Requirements $\Delta C/C \leq 20\%$ of initial value ESR $\leq 130\%$ of specified limit $I_L \leq$ specified limit |
| Climatic category IEC 60068 | | 55/125/56 |
| Voltage proof of the external insulation | | $D \leq 25$ mm: ≥ 1000 V AC $D > 25$ mm: ≥ 2500 V AC |
| Sectional specification | | IEC 60384-4 |
| \emptyset leads | | Up to 25 mm \emptyset : 0,8 mm ; more than 25 mm \emptyset : 1,0 mm |



Electrical data and ordering code for series AG

| Rated voltage U_R [V] | Rated cap. C_R [μ F] | Case size D x L [mm] | Typ. ESR 100 Hz, 20°C [m Ω] | Ripple current IR~ 100 Hz, 125°C [A] | Order code AG... |
|-------------------------------|-----------------------------------|----------------------------|--|--|---------------------|
| 16 | 1000 | 10x30 | 223 | 0,6 | 10201610030 |
| | 1200 | 12x30 | 186 | 0,7 | 12201612030 |
| | 1500 | 14x30 | 149 | 0,8 | 15201614030 |
| | 2200 | 14x37 | 101 | 1,1 | 22201614037 |
| | 2200 | 16x30 | 101 | 1,1 | 22201616030 |
| | 3300 | 16x39 | 68 | 1,5 | 33201616039 |
| | 3300 | 18x30 | 68 | 1,4 | 33201618030 |
| | 3900 | 18x39 | 57 | 1,7 | 39201618039 |
| | 4700 | 21x36 | 47 | 2,0 | 47201621036 |
| | 8200 | 25x38 | 27 | 2,9 | 82201625038 |
| 25 | 470 | 10x30 | 474 | 0,4 | 47102510030 |
| | 680 | 12x30 | 328 | 0,5 | 68102512030 |
| | 1200 | 14x30 | 186 | 0,7 | 12202514030 |
| | 1500 | 14x37 | 149 | 0,9 | 15202514037 |
| | 1500 | 16x30 | 149 | 0,9 | 15202516030 |
| | 1800 | 16x39 | 124 | 1,1 | 18202516039 |
| | 1800 | 18x30 | 124 | 1,1 | 18202518030 |
| | 2200 | 18x39 | 101 | 1,3 | 22202518039 |
| | 3300 | 21x36 | 68 | 1,7 | 33202521036 |
| | 4700 | 25x38 | 47 | 2,2 | 47202525038 |

| Rated voltage U_R [V] | Rated cap. C_R [μ F] | Case size D x L [mm] | Typ. ESR 100 Hz, 20°C [m Ω] | Ripple current IR~ 100 Hz, 125°C [A] | Order code AG... |
|-------------------------------|-----------------------------------|----------------------------|--|--|---------------------|
| 40 | 270 | 10x30 | 708 | 0,3 | 27104010030 |
| | 470 | 12x30 | 407 | 0,5 | 47104012030 |
| | 560 | 14x30 | 341 | 0,5 | 56104014030 |
| | 680 | 14x37 | 281 | 0,7 | 68104014037 |
| | 680 | 16x30 | 281 | 0,7 | 68104016030 |
| | 1000 | 16x39 | 191 | 0,9 | 10204016039 |
| | 1000 | 18x30 | 191 | 0,9 | 10204018030 |
| | 1200 | 18x39 | 159 | 1,0 | 12204018039 |
| | 1500 | 21x36 | 127 | 1,2 | 15204021036 |
| | 2200 | 25x38 | 87 | 1,6 | 22204025038 |
| 63 | 150 | 10x30 | 1062 | 0,3 | 15106310030 |
| | 220 | 12x30 | 724 | 0,4 | 22106312030 |
| | 330 | 14x30 | 483 | 0,5 | 33106314030 |
| | 470 | 14x37 | 339 | 0,6 | 47106314037 |
| | 470 | 16x30 | 339 | 0,6 | 47106316030 |
| | 560 | 16x39 | 284 | 0,7 | 56106316039 |
| | 560 | 18x30 | 284 | 0,7 | 56106318030 |
| | 820 | 18x39 | 194 | 0,9 | 82106318039 |
| | 1000 | 21x36 | 159 | 1,1 | 10206321036 |
| | 1500 | 25x38 | 106 | 1,5 | 15206325038 |

Useful life
as a function of ambient temperature and actual ripple current

