



CT27 Series Capacitors for DC Link 600VDC-4000VDC

Features

- Metallized polypropylene film, Non inductive
- Low ESR, high ripple current handling capabilities
- Dry type, self-healing property, long life time
- Aluminum case, filled with thermally conductive resin
- Used in DC Link circuits as filtering or energy storage
- Can replace electrolytic capacitor

Applications

- Frequency converters for solar and wind power
- High voltage inverters, SVC, SVG

Specifications	Reference value
Reference standards	IEC 61071:2007, GB/T 17702-2013
Working temperature range	-40°C~+85°C [$\Theta_{\max(\text{hotspot})} \leq +85^\circ\text{C}$]
Storage temperature range	-40°C~+85°C

Rated voltage	600VDC-4000VDC
Rated capacitance	50 μ F-5600 μ F
Capacitance tolerance	\pm 5% (J) , \pm 10% (K)
Test voltage between terminals	1.5U _n 10s(25°C \pm 5°C)
Test voltage terminals to case	1.5U _n +1000VAC 10s(50Hz,25°C \pm 5°C)
Dielectric dissipation factor	\leq 2 \times 10 ⁻⁴ @100Hz,25°C \pm 5°C
Overvoltage protection	1.1U _n : 30% of the service period
	1.15U _n : 30min/day
	1.2U _n : 5min/day
	1.3U _n : 1min/day
	1.5U _n : \leq 30ms,1000 times during the life
Life expectancy	100,000 hours [$\Theta_{\text{max(hotspot)}} \leq +70^\circ\text{C}$]
Failure rate	50 FIT
Self discharge time constant	C x Ris \geq 5 000s (25°C,100VAC)
Maximum torque of terminals	4.5Nm
Maximum torque of mounting tabs	8.5Nm
Maximum altitude without derating	2000m

Mounting mode	Arbitrary direction
Outline type	Round, custom products available on request



AnXon Part No.	Rated Spec	I A	ESL nH	D x L mm	Equivalent to Electronic PK16 XI P/N
	kVdc / uF				
	Un 2000VDC Us 3000V Utt 3000VDC Utc 6000V AC/2s				
AXCT27125K202CA	2000V 125uF	50	40	85x155	E50.N15-134NZ0
AXCT27180K202CA	2000V 180uF	60	60	85x210	E50.N21-184NZ0
AXCT27210K202CA	2000V 210uF	60	60	85x232	E50.N23-214NT0
AXCT27225K202DA	2000V 225uF	80	40	116x165	E50.R16-234NT0
AXCT27335K202DA	2000V 335uF	100	50	116x230	E50.R23-344NT0
AXCT27450K202DA	2000V 450uF	120	60	116x295	E50.R29-454NT0
AXCT27560K202DA	2000V 560uF	120	70	116x345	E50.R34-564NT0
AXCT27640K202EA	2000V 640uF	120	70	136x295	E50.S29-644NT0
AXCT27800K202EA	2000V 800uF	120	70	136x345	E50.S34-804NT0