



## 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 $\mu$ F-5600 $\mu$ F
Capacitance tolerance	$\pm$ 5% (J) , $\pm$ 10% (K)
Test voltage between terminals	1.5U <sub>n</sub> 10s(25°C $\pm$ 5°C)
Test voltage terminals to case	1.5U <sub>n</sub> +1000VAC 10s(50Hz,25°C $\pm$ 5°C)
Dielectric dissipation factor	$\leq$ 2 $\times$ 10 <sup>-4</sup> @100Hz,25°C $\pm$ 5°C
Overvoltage protection	1.1U <sub>n</sub> : 30% of the service period
	1.15U <sub>n</sub> : 30min/day
	1.2U <sub>n</sub> : 5min/day
	1.3U <sub>n</sub> : 1min/day
	1.5U <sub>n</sub> : $\leq$ 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	ESL	D x L	Equivalent to Electronicon PK16 XI P/N
	kVdc / uF	A	nH	mm	
	Un 1500VDC	Us 2250V	Utt 2250VDC	Utc 4800V AC/2s	
AXCT27135K152FA	1500V 135uF	60	40	75x136	E50.M13-144NT7
AXCT27160K152FA	1500V 160uF	60	40	75x155	E50.M15-164NT7
AXCT27195K152CA	1500V 195uF	60	40	85x136	E50.N13-204NT7
AXCT27230K152CA	1500V 230uF	60	40	85x155	E50.N15-234NT0
AXCT27300K152GA	1500V 300uF	60	60	100x165	E50.Q16-304N57
AXCT27330K152CA	1500V 330uF	60	60	85x210	E50.N21-334N20
AXCT27380K152CA	1500V 380uF	60	60	85x232	E50.N23-384NT0
AXCT27410K152DA	1500V 410uF	80	40	116x165	E50.R16-414NT0
AXCT27450K152GA	1500V 450uF	80	60	100x230	E50.Q23-454N57
AXCT27615K152DA	1500V 615uF	100	50	116x230	E50.R23-624NT0
AXCT27820K152DA	1500V 820uF	100	60	116x295	E50.R29-824NT0
AXCT271020K152DA	1500V 1020uF	100	70	116x345	E50.R34-105NT0
AXCT271170K152EA	1500V 1170uF	120	70	136x295	E50.S29-125NT0
AXCT271490K152EA	1500V 1490uF	120	70	136x345	E50.S34-155NT0