

**New**

Type **K31**

Metallized polypropylene D.C. link capacitors



Preliminary Catalogue - K31 will be available for orders starting 01/12/2011

## APPLICATIONS

- Designed for professional power electronics
- Solar converters, Motor drives

## SPECIFICATIONS

Reference	IEC 61071-1
IEC climatic	40/85/21 IEC 68-1
Storage temperature	-40 to +90°C
Temperature range	-40 to +85°C
Case	Aluminium case with or without stud M12
Maximum screw torque strength for stud M12	8 Nm
Deck	Plastic deck UL94 (V0)
Insert style of deck.	High current M6 female terminals, M8 – M10 male terminals
Maximum screw torque strength for insert.	3Nm x M6, 6Nm x M8, 8Nm x M10
Dielectric	Self healing polypropylene film
Filling	Self-extinguishing (V0) polyurethane resin
Surge voltage between terminals	X1.5 10sec 25°C
Test voltage terminal to case	3KV 50Hz for 2 sec
Capacitance deviation range temperature	±1.5% @ 25°C
Tolerance	-10% +10%
Mounting	Horizontal – Vertical
Maximum ripple current	100A
Max dV/dt	≤ 40 V/μsec
Life	100000 H @ 85°C
Failure Rate	300 FIT
Expected life estimation based on application conditions and our life formula	Please contact our technical service
End life criteria	±10% cap

## MECHANICAL SPECIFICATIONS

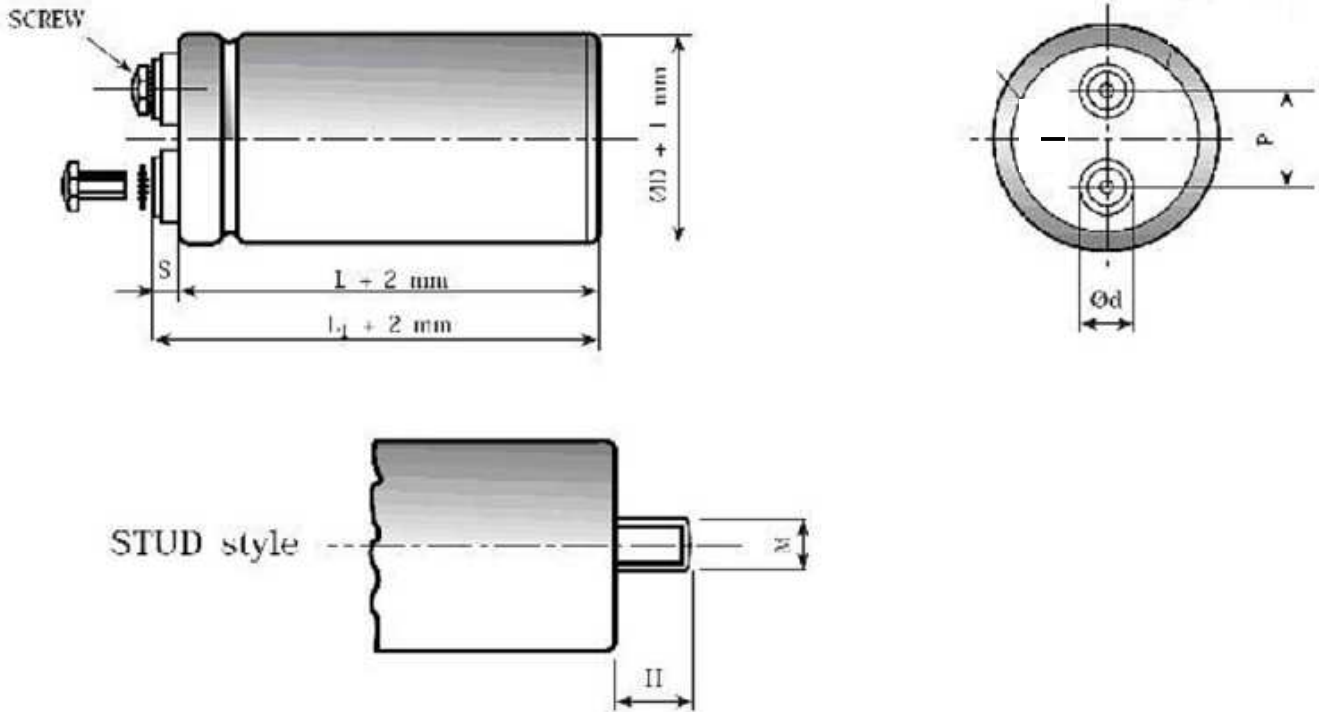


Diagram of dimensions (unit=mm)

$\varnothing D$	d	P	M	H	SCREW
<b>75</b>	18.5	31.8	M 12	16	6MA x 10
<b>85</b>	18.5	31.8	M 12	16	6MA x 10

## K31 TYPE STANDARD RATINGS

RATED VOLTAGE VDC	Cap $\mu$ F	$\varnothing$ x L mm	Weight gr	ESR m $\Omega$ 10 KHz	ESL nH	Ir a.c. A max 10KHz 40°C	Ir a.c. A max 10KHz 55°C	Ir a.c. A max 10KHz 75°C	dV/dt V/ $\mu$ sec	I pk A	PART NUMBER Termination digit excluded
<b>700V</b>	350	75x120									K31700351__K0J120
	420	75x140									K31700421__K0J140
	450	85x120									K31700451__K0L120
	500	75x155									K31700501__K0J155
	550	85x140									K31700551__K0L140
	600	85x155									K31700601__K0L155

Under construction

RATED VOLTAGE VDC	Cap $\mu$ F	$\varnothing$ x L mm	Weight gr	ESR m $\Omega$ 10 KHz	ESL nH	Ir a.c. A max 10KHz 40°C	Ir a.c. A max 10KHz 55°C	Ir a.c. A max 10KHz 75°C	dV/dt V/ $\mu$ sec	I pk A	PART NUMBER Termination digit excluded
<b>900V</b>	220	75x120									K31900221__K0J120
	270	75x140									K31900271__K0J140
	300	75x155									K31900301__K0J155
	300	85x120									K31900301__K0L120
	350	85x140									K31900351__K0L140
	440	85x155									K31900441__K0L155

Under construction

RATED VOLTAGE VDC	Cap $\mu$ F	$\varnothing$ x L mm	Weight gr	ESR m $\Omega$ 10 KHz	ESL nH	Ir a.c. A max 10KHz 40°C	Ir a.c. A max 10KHz 55°C	Ir a.c. A max 10KHz 75°C	dV/dt V/ $\mu$ sec	I pk A	PART NUMBER Termination digit excluded
<b>1100V</b>	150	75x120									K31111151__K0J120
	190	75x140									K31111191__K0J140
	200	85x120									K31111201__K0L120
	220	75x155									K31111221__K0J155
	250	85x140									K31111251__K0L140
	300	85x155									K31111301__K0L155

Under construction

### Notes:

digit 10<sup>th</sup> - Terminal as follows:  
 6 = M6 FEMALE  
 8 = M8 MALE  
 H = M10 MALE

digit 11<sup>th</sup> - as follows:  
 0 = PLAIN CAN  
 S = STUD CAN