

# KPF IGBT Snubber Capacitors

## by ALCON ELECTRONICS

### HIGHLIGHTS

Self-healing property.  
Low inductance.  
High dv/dt.  
Low ESR.  
Low loss polypropylene dielectric.  
Immediate availability.

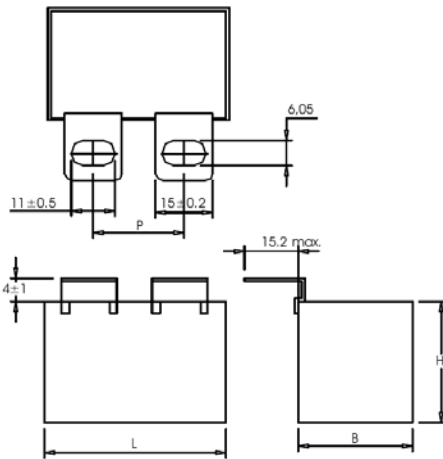


### TECHNICAL SPECIFICATIONS

Dielectric material	Polypropylene film
Electrode material	Aluminium foil and metallised plastic film
Winding construction	Non-inductive, extended foil
Lead material	Tinned copper
Enclosure	UL 94 V0 Preformed plastic case with thermosetting resin fill
Rated voltage $V_{DC}$	1250 / 1500 / 2000
Rated voltage $V_{AC}$	550 / 630 / 750
Capacitance range	0,15 $\mu$ F to 1,5 $\mu$ F
Capacitance tolerance	$\pm 10\%$
Test voltage	Between terminals: 1.6 x rated voltage $V_{DC}$ for 2s.
	Terminal to case: 3kV $_{AC}$ @ 50Hz for 60s.
Temperature range	-40°C to +85°C
Insulation resistance	Measured at +25°C, 500V $_{DC}$ , 60s.:
	$C \leq 0,33\mu F$ : $\geq 100.000 M\Omega$ $C \geq 0,33\mu F$ : $\geq 30.000 M\Omega$
Dissipation factor Tan $\delta$	$\leq 0,0005$ @ 1 kHz & 25°C

## IGBT Snubber Capacitors

Capacitance (μF)	Case	dv/dt (V/μs)	I <sub>PEAK</sub> (A)	I <sub>RMS</sub> @ 100 kHz / 55°C	ESR max. @ 100 kHz (mΩ)
<b>1250 V<sub>DC</sub> rated voltage</b>					
0,22	B1	1400	308	18,2	4,2
0,33			396	19,7	3,7
0,47			564	21,1	3,5
0,68	E1	1100	748	21,3	3
1,00	B2		1100	26	
1,50	E2	800	1200		2,5
<b>1500 V<sub>DC</sub> rated voltage</b>					
1,00	E2	1300	1300	26	3
<b>2000 V<sub>DC</sub> rated voltage</b>					
0,15	B1	1900	285	15,11	7
0,22	E1		418	19,8	4,5
0,33	B2	1700	561	22,2	4,1
0,47	B3		799	22,5	4
0,68	E3	1600	1088	22,8	3,7



**DIMENSIONS TABLE**

Case	B	H	L	P
B1	17	29	41,5	25,5
B2	24	38	45	25,5
B3	30	45	45	27
E1	20	36	42	25,5
E2	35	42	45	27
E3	35	46	54	27

### ORDER FORM:

KPF 1.00μF/1250VDC E2 RL  
(1) (2) (3) (4) (5)

- 1-Series identifier (KPF)
- 2-Capacitance value
- 3- Rated DC voltage value
- 4- Case identifier
- 5- Terminal identifier (RL)

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