EKELTRON®

SB	FEAT	URES: PROFESSION RADIAL LEAD APPLICATION	AL GRADE L TYPE FOR I	ONG LIFE DEFENCE			EN	IDURANCE	+ 85⁰C, 2000 Hrs.		
	REFE STAN	RANCE IDARDS: JSS 50207 - CLL	07 STYLE			PRODUCT MARKING	-		VIDED WITH ORANGE COLOUR /E AND BLACK PRINT		
1. SPECIFICATIONS											
PARAMETERS.		PERFORMANCE CHAR	ACTERISTIC	S							
Operating Temperature		- 40ºC to +85ºC									
Working Voltage		6.3 Vdc to 63 Vdc.									
Capacitance Range		0.47 μF to 6800 μF (at	+27ºC, 100	Hz)							
Capacitance Tolerance		-10% to +50% (T) or ±	20% (M) on	request							
Leakage Current (After 5mt charging through 1000 Ω resistor) IL in μA	5	IL \leq 0.01 CV or 1 μ A, w and IL \leq 0.006 CV + 4 μ Where IL = Leakage cu C= Capacitance (μ F), V	hichever is A for CV >1 rrent in μA. = Working ^v	greater for CV 000 Voltage in Volt	′ ≤ 1000						
Dissipation factor (Tan δ) Max (at +27ºC, 100Hz)		Capin μF	WV		6.3 ~ 10V	16	~ 25V		35 ~ 63V		
		≤ 470 μF			24		19		13		
		680 ~ 4700 μF			31		22		22		
	> 4700 μF				50		50		50		
Low Temperature Stability											
		Ŵ	/ V		6.3	~ 10V			16 ~ 63 V		
		Z - 40ºC	/ Z + 27ºC			4			3		
		Impedance Ratio at 10	0 Hz.								
Life Tests											
		Tests		Ende	urance DC Life Test			Stor	age Shelf Life test		
(i). Endurance Test at High Temperature +85ºC at WV.		Test Condition Parameters	Capacitor At +85ºC, Measurer	at rated volta for 2000 Hrs ments after ree	ge and covery to +27°C		Capacitor under no voltage At +85°C for 500 Hrs Measurements after recovery to +27°C				
		Δ Capacitance	Within ± 2	15% of the init	ial measured Value		Within	\pm 10% of in	itial measured Value		
(ii). Storage Test		Tan ∂	Within 13	0% of initial li	mit		Within	120% of ini	tial limit		
+85°C at 0V.	at High Temperature +85°C at 0V. D.C Leakage Current		Within ini	itial limit			Within	200% of ini	tial limit		
		Impedance Change	Within 20 Measured	00% of initial d value at 10KH	Hz						
		Visual	No seepage of electrolyte No damage of sleeve					No seepage of electrolyte No. damage of sleeve. Solderablity test to be passed with wetting above 85%			
Stability test at high temperature Δ Capacitance			Within \pm 10% of initial measured Value								
	_, _,	Tan ∂	Within 13	0% of initial m	neasured Value						
		D.C Leakage current	Within 30	00% of initial lin	mit						
		Visual	No seepa	ge of electroly	te. No damage of sleev	ve.					

02. OTHER INFORMATION

Standard rating size, Dimensions and Physical outline	Refer Page no. 2
Capacitor Codification System	Refer Page no. 3
Marking Specification	Refer Page no. 4
Type of Packing and Lead Configuration	Bulk Packing - Straight Lead For details of packing refer page no. 5.

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3. PHYSICAL OUT LINE - SB SERIES



All dimensions in mm

Note: Cases Ø5.5, Ø6.5 and Ø8.5 are without safety vent. Cases Ø10.5, Ø13, Ø17 and Ø19 are with safety vent. 4. <u>DIMENSIONS</u> (All units in mm)

Case code and dimensional details of SB series radial type capacitors in sleeved conditions are given below.

JSS Case Code	А	В	С	D	E	F	G	Н	J	К	L
Ø D max.	5.5	6.5	8.5	10.5	10.5	10.5	13	17	17	19	19
L max	11.5	12.5	12.5	15	17	21	26	27	31	37	41
Ø d ^{+ 10%} - 0.05	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
P ± 0.5	2	2.5	3.5	5	5	5	5	7.5	7.5	7.5	7.5
Eqvt. Keltron Case Code	HS	AS	BB	CD	CD	CG	DK	EK	ER	SH	SJ

5. STANDARD RATING TABLE

Provides information regarding applicable JSS case code.

WV SV	6.3V	10V	16V	25V	40V	63V
Сар (µF)	8V	12V	19V	29V	60V	73V
0.47						А
0.68						А
1.0						А
1.5						А
2.2						А
3.3						А
4.7						А
6.8						А
10				А	В	В
15				А	В	С
22		A	В	В	В	С
33		A	В	В	С	С
47	А	В	В	С	С	D
68	В	В	С	С	С	E
100	В	С	С	С	E	F
150	С	С	D	D	E	G
220	С	D	E	E	G	G
330	D	D	E	F	G	Н
470	D	E	F	G	G	Н
680	F	F	Н	G	Н	К
1000	F	G	Н	Н	J	К
1500	F	G	Н	J	К	
2200	Н	Н	Н	J	К	
3300	Н	J	J	К		
4700	J	J	К			
6800	К	L				

6. MARKING ON THE CAPACITOR

Radial SB series capacitors have the following details printed on the orange coloured sleeve with black print.

a) Negative terminal identification with black band.

c) Rated capacitance in μF

e) Manufacturer's Name

b) Capacitor's type SB

d) Rated working voltage in Vdc

f) Manufacturing date (Year-Month)

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1. CAPACITOR ORDERING INFORMATION:

Capacitors are identified with the help of 12-digit code. Expansion of Part Nos. for SB series capacitors are detailed below.



Capacitor Codification System:-



<u>Note</u>:

Manufacturer's logo, capacitor series, upper category temperature and date code are marked only for sizes \emptyset 8mm and above.

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Date Code:

Date code is provided on the capacitor sleeve in Year – Month format for sizes \emptyset 8mm and above. Year & Month code of SB capacitor of diameter \emptyset 8mm & above are detailed below.

Year code

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Letter Code	М	Ν	Р	R	S	Т	U	V	W	Х

Year	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Letter Code	А	В	С	D	E	F	Н	J	К	L

Year codes repeats after each cycle of 20 years.

Month Code

Month	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug	Sep.	Oct.	Nov	Dec.
Code	1	2	3	4	5	6	7	8	9	0	Ν	D

4. <u>LEAD CONFIGURATION AND PRIMARY PACKING STANDARD FOR RADIAL ALUMINIUM ELECTROLYTIC</u> <u>CAPACITORS</u>

LEAD CONFIGURATION

SB capacitors are available in the following lead configuration.

 STRAIGHT LEAD – Applicable to case code starting from HS (Size Φ5.5 x11 mm) to SJ (Size Φ19 x 41 mm).

PRIMARY PACKING STANDARD BULK PACKING

SB series capacitors are generally BULK PACKED in thick polythene bags which are heat sealed to avoid direct atmospheric exposure. Individual primary packing in polythene bag is provided with a LABEL which carries outgoing Inspection Report No, Work Order No, Capacitor Series, Capacitance Value, Working Voltage, Capacitor tolerance, Capacitor size, Capacitor Part No, Temperature, Quantity and Date of packing. IT IS CUSTOMARY TO RETURN THE PACKING LABEL TO THE FACTORY IN CASE OF QUANTITY/QUALITY NON-CONFORMANCE.

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BULK PACKING QUANTITY DETAILS.

Size (Ø D x Lmm)	5x11	6.3x11	8x12.5	10x12.5	10x16	10x21	10x25	12.5x21
Case code	HS	AS	BB	СВ	CD	CG	СК	DG
Nos/ Bag	500	500	500	300	300	300	200	200
Nos/ Carton	5000	4000	2500	1800	1500	1200	1000	800
Wt. (Kg) 1000 Nos (Approx)	2.2	2.6	2.6	3.3	3.0	2.9	3.3	3.2

Size (Ø D x Lmm)	12.5x25	16x25	16x31	16x36	18x31	18x37	18x41	22x37	22x41	22x52
Case code	DK	EK	ER	EU	SR	SH	SJ	TH	ΤJ	ТМ
Nos/ Bag	200	100	100	100	50	50	50	50	25	25
Nos/ Carton	600	400	300	300	200	200	200	150	125	75
Wt. (Kg) 1000 Nos (Approx)	2.8	2.7	2.9	3.3	2.4	2.8	3.2	3.1	2.8	2.2

PHYSICAL DIMENSIONS; UNIT (mm)

Case Diameter	H ± 0.5	H1	F ± 0.3	P ± 0.5	Ød ± 0.05	K (min)
Ø10	5.0	2.7	1.3	5.0	0.6	2.8
Ø 12.5	5.0	2.7	1.3	5.0	0.6	2.8
Ø 16	5.0	2.7	1.3	7.5	0.8	5.5
Ø 18	5.0	2.7	1.3	7.5	0.8	5.5

Packing Methods of Lead Formed & Cut Capacitors and Kinking & Cut Capacitors

Capacitors are packed in primary cardboard carton using separators and then filled into appropriate Mother & Master carton for dispatch.