DB, DBN ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

ELNA®

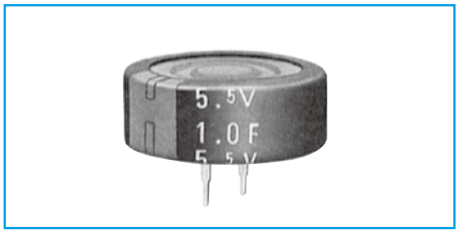
5.5V Standard Capacitors Series DB

GREEN CAP | 70°C

- Small-sized, large capacity, excellent voltage holding.
- For all ratings, uniform 5mm pitch of terminal spacing.
- Wider temperature range (−25 to +70°C) than battery.
- φ21.5×7.5L size can encase up to 1.5F.
- Ideal for backing up of CMOS's, IC's, microcomputers, RAM's, RTC's and the like used in Video's, tuners, TV sets, telephone sets and others.

Low resistance

DBN ⇦ DB



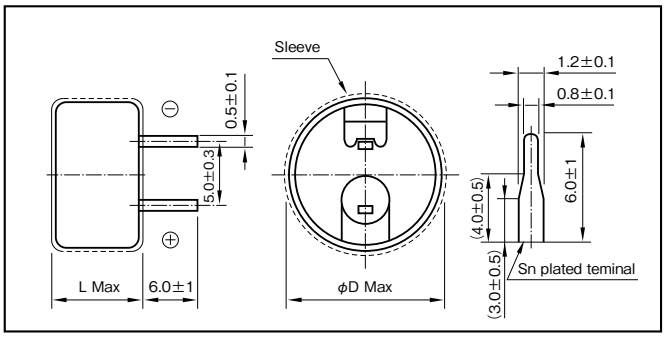
Marking color : White print on an indigo sleeve

Specifications

Item	Performance							
Category temperature range (℃)	−25 to +70							
Tolerance at rated capacitance (%)	−20 to +80							
Internal resistance at 1 kHz	Rated capacitance (F)	0.047	0.1	0.22	0.33	0.47	0.47	1	1.5
	Internal resistance (Ω Max.)	120	75	75	75	75(φ13.5)	30(φ21.5)	30	30
Characteristics at high and low temperature	Percentage of capacitance change	Within ±30% of the value at 20℃							
	Internal resistance	Less than five times of the value at 20℃							
Endurance (70℃)	Test time	1000 hours							
	Percentage of capacitance change	Within ±30% of the initial measured value							
	Internal resistance	Within four times of the initial specified value							
Shelf life (70℃)	Test time : 1000 hours ; Same as endurance.								
Applicable standards	Conforms to JIS C5160-1 2009 (IEC 62391-1 2006)								

Outline Drawing

Unit : mm



Standard Ratings

Max. operating voltage (V)	Rated capacitance (F)	ELNA Parts No.	φD×L (mm)
5.5	0.047	DB-5R5D473T	13.5×7.5
5.5	0.1	DB-5R5D104T	13.5×7.5
5.5	0.22	DB-5R5D224T	13.5×7.5
5.5	0.33	DB-5R5D334T	13.5×7.5
5.5	0.47	DB-5R5D474ST	13.5×7.5
5.5	0.47	DB-5R5D474T	21.5×8.0
5.5	1	DB-5R5D105T	21.5×8.0
5.5	1.5	DB-5R5D155T	21.5×8.0

Part numbering system (example : 5.5V0.1F)

DB	—	5R5	D	104	□	T
Series code		Max. operating voltage symbol	Terminal code	Reted capacitance symbol	Additional symbol	

Part number is refer to above table.

5.5V Low Resistance Series DBN

GREEN CAP | 70°C | Low ESR

- Internal resistance was reduced to 85% to DB series.
- It excels in rapid charge.(It can charge and discharge with 1.5 times as much current (mA) as rated capacitance.)

Specifications

Item	Performance							
Category temperature range (℃)	−25 to +70							
Tolerance at rated capacitance (%)	−20 to +80							
Internal resistance at 1 kHz	Rated capacitance (F)	0.047	0.1	0.22	0.33	0.47	0.47	1	1.5
	Internal resistance (Ω)	25	25	25	25	25(φ13.5)	20(φ21.5)	20	20
Characteristics at high and low temperature	Percentage of capacitance change	Within ±30% of the value at 20℃							
	Internal resistance	Less than five times of the value at 20℃							
Endurance (70℃)	Test time	1000 hours							
	Percentage of capacitance change	Within ±30% of the initial measured value							
	Internal resistance	Within four times of the initial specified value							
Shelf life (70℃)	Test time : 1000 hours ; Same as endurance.								
Applicable standards	Conforms to JIS C5160-1 2009 (IEC 62391-1 2006)								

Standard Ratings

Max. operating voltage (V)	Rated capacitance (F)	ELNA Parts No.	φD×L (mm)
5.5	0.047	DBN-5R5D473T	13.5×7.5
5.5	0.1	DBN-5R5D104T	13.5×7.5
5.5	0.22	DBN-5R5D224T	13.5×7.5
5.5	0.33	DBN-5R5D334T	13.5×7.5
5.5	0.47	DBN-5R5D474ST	13.5×7.5
5.5	0.47	DBN-5R5D474T	21.5×8.0
5.5	1	DBN-5R5D105T	21.5×8.0
5.5	1.5	DBN-5R5D155T	21.5×8.0

Part numbering system (example : 5.5V0.047F)

DBN	—	5R5	D	473	□	T
Series code		Max. operating voltage symbol	Terminal code	Reted capacitance symbol	Additional symbol	

Part number is refer to left table.

NOTE : Design, Specifications are subject to change without notice. It is recommended that you shall obtain technical specifications from ELNA to ensure that the component is suitable for your use.

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