

5.5V Standard Capacitors Series DB

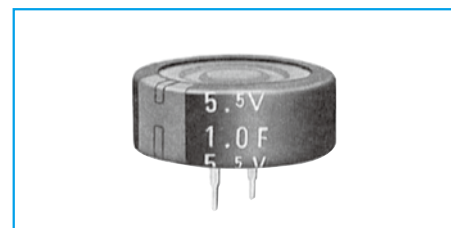
GREEN
CAP

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.
- $\phi 21.5 \times 7.5$ L 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



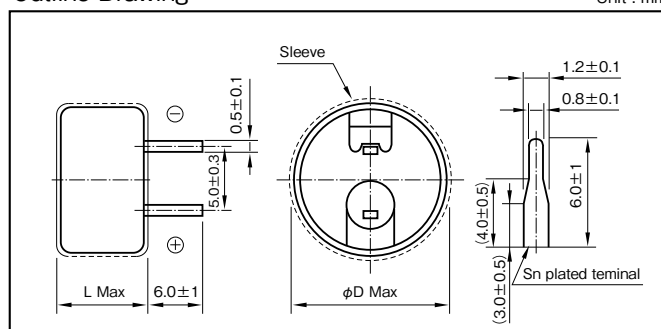
Marking color : White print on an indigo sleeve

Specifications

Item	Performance									
Category temperature range (°C)	−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 (ϕ 13.5)	30 (ϕ 21.5)	30	30
Characteristics at high and low temperature	Percentage of capacitance change		Within ±30% of the value at 20°C							
	Internal resistance		Less than five times of the value at 20°C							
Endurance (70°C)	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°C)	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	Rated 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 (°C)	−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 (φ 13.5)	20 (φ 21.5)	20	20
Characteristics at high and low temperature	Percentage of capacitance change	Within ±30% of the value at 20°C							
	Internal resistance	Less than five times of the value at 20°C							
Endurance (70°C)	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°C)	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	Rated 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.

Mouser Electronics

Authorized Distributor

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Elna:

[DB-5R5D155T](#)