DYNACAP **ELECTRIC DOUBLE LAYER CAPACITORS**



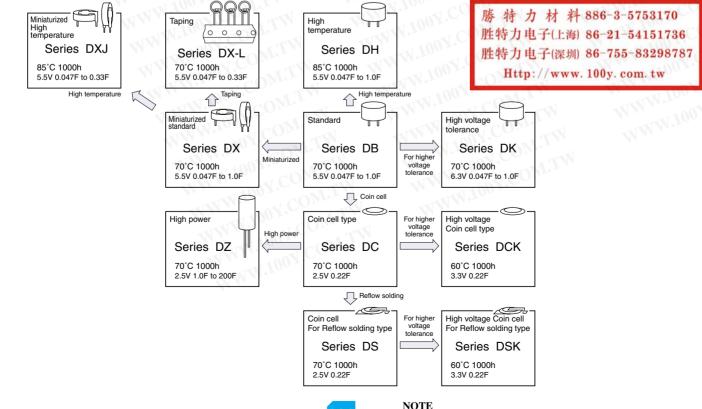
Features

- · Can be used as a rechargeable battery and ideal for backing up purposes.
- · Capable of several hundreds of thousands of charge/discharge cycles; free from throwaway disposal.
- It does not contain toxic materials such as nickel and cadmium.

■ Type List for Electric Double Layer Capacitors (DYNACAP)

Cate-	Series	Catego rang	ry temp. e °C	Max.operating voltage	Capacitance range	Color of	Page	Applications	Remarks
gory	Max. Min. V.DC		FCON	sleeve	Ũ	WWW. CONCOMMENT			
Standard type	DB	+70	-25	5.5	0.047 to 1.0	Indigo	130	Ideal for backing up of CMOS IC's, microcomputers, RAM's and the like used in VCR's, tuners, TV sets, telephone sets and others.	
Miniaturized Standard type	DX	+70	-25	5.5	0.047 to 1.0	Indigo	131	Ideal for backing up of CMOS IC's, microcomputers, RAM's and the like used in VCR's, tuners, TV sets, telephone sets, pager units, cameras and others.	☆
Miniaturized High temperature type	DXJ	+85	-10	5.5	0.047 to 0.33	Black	132	Ideal for backing up of CMOS IC's, microcomputers, RAM's and the like used in VCR's, tuners, TV sets, telephone sets, pager units, cameras and others.	
High voltage tolerance type	DK	+70	-25	6.3	0.047 to 1.0	Indigo	133	Ideal for backing up of Li -batterybacked equipment such as cameras, VCR's and telephone sets.	LTW.
High temperature type	DH	+85	-25	5.5	0.047 to 1.0	Indigo	134	Ideal for backing up of controls, electronic rice cooking jars, home bakeries and others.	M.TV
type	DC	+70	-25	2.5	0.22	01100	125	Ideal for backing up of pager, solar watches,	T.MO
Coin type	DCK	+60	-10	3.3	0.22	Silver	135	solar calculators, solar remote control units, camaras and the like.	Lon.
ow type	DS	+70	-25	2.5	0.22	Cilver	126	Mountable on board with best suited for	Lon
Reflow solding Coin type	DSK	+60	-10	3.3	0.22	Silver	136	mainly memory and time functions as well as memory backup for PDA and DSC.	L.COM
High power type	DZ	+70	-25	2.5	1.0 to 200	Black	137	Ideal for power supplies of cellular phone, cordless telephone, moter, electromagnetic coil, and the storage battery of solar battery.	ox.co

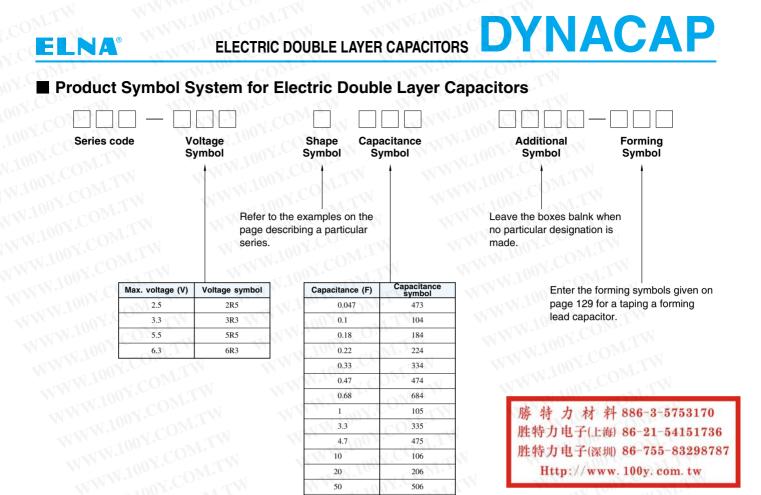
Systematized Classification of Electric Double Layer Capacitors (DYNACAP)





Design, Specifications are subject to change without notice.

Ask factory for technical specifications before purchase and/or use.



Recommended soldering method (DS, DSK series)

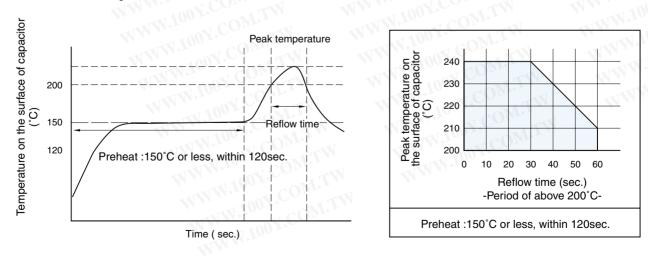
Method	Reflow soldering	Soldering iron	Flow soldering
Advisability	0.0	0	×

100

200

107

207



Reflow soldering conditions.

Attention : Carry out soldering work at low temperature and in the shortest time within above conditions. Do NOT reflow solder, when cell voltage is above 0.3V.

DYNACAP ELECTRIC DOUBLE LAYER CAPACITORS

勝 特 力 材 料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Cautions for Using DYNACAP(Electric Double Layer Capacitor)

Usage

Since DYNACAP is polarized, do not apply a reversed voltage. DYNACAP is polarized. If a reversed voltage is applied for a long time, the leakage current will increase abruptly, which may cause a decrease in the capacity, an increase in the internal resistance, and causing leakage or damage to the product in some cases.

2. Do not apply any voltage higher than the operating maximum voltage (this means the surge voltage in the case of short-time charge).

- If an overvoltage is applied to the product, the leakage current will increase abruptly and the product will become overheated, which may cause a decrease in the capacity, an increase in the internal resistance, and causing leakage or damage to the product in some cases.
- 3. Do not use smoothing a power supply (for absorbing its ripple). Since the internal resistance of DYNACAP is high, the product will be

Since the internal resistance of DYNACAP is high, the product will be overheated if it is used for smoothing a power supply (for absorbing its ripple), which may cause a decrease in the capacity. an increase in the internal resistance, and causing leakage or damage to the product in some cases.

4. Do not use in a circuit where quick charge and discharge are repeated very often.

In a circuit where quick charge and discharge are repeated very often, the product will become overheated, which may cause a decrease in the capacity, an increase in the internal resistance, and causing leakage or damage to the product in some cases.

Reduce the charge and discharge currents while selecting a product with low internal resistance, and make sure that the product surface temperature does not rise.

5. DYNACAP life depends heavily on the ambient temperature.

①The lifetime of DYNACAP is seriously affected by change in ambient temperature. If the temperature is lowered by 10°C, the lifetime will be approximately doubled. Therefore, the product should be used at a temperature lower than the guaranteed maximum value for maximum life.

(2)If the capacitor is used at a temperature exceeding its maximum guaranteed temperature, not only is its life shortened, but increased vapor pressure of electrolyte or electrochemical reactions may increase the internal pressure, and causing leakage or damage to the product in some cases.

6. Note that a voltage drop in DYNACAP occurs during backup.

In a case where discharge current is large, or a large current flows instantaneously. an electric double layer capacitor (DYNACAP) may not operate at the start of discharge because of a large voltage drop (IR drop) caused by the product with the DC internal resistance.

Please consult us for a large discharge current (in the case of other series except DZ series: when larger than I [mA] =1 x C[F]) as the internal resistance varies by each series. (Recommendation discharge current: 1 mA/F at 20°C)

7. Do not use the product in an ambient atmosphere containing water droplets of toxic gases.

Although DYNACAP is sealed, water droplets or toxic gases may corrode the lead wires and the case, which may cause a breaking of the wires.

8. Contact us before connecting the products in series.

A series connection will cause an imbalance in the voltage, charged to the capacitors and an overvoltage may be charged to one or more them. This may cause a decrease in the capacity, an increase in the internal resistance and causing leakage or damage to the product in some cases. 9. About vibration.

A terminal blank, a terminal bend, and a crease may occur by adding too much vibration to a capacitor.

Moreover, depending on the case, a DYNACAP may do degradation of the characteristic, breakage, and a leakage.

When you become too much vibration, please contact our company.

10. When used on a double sided printed circuit board, do not overlap the wiring patterns on the mounted part.

A short circuit may be created by certain wiring conditions. Should the electrolyte leaks, the circuit pattern may cause a short circuit, resulting in tracking or migration.

11. Do not keep in high temperature and high humidity atmospheres. ①Avoid high temperature or high humidity or direct rays when storing capacitors.

(2)Keep the product in a place where the temperature is 5°C~30°C and the humidity is lower than 60%. Avoid an abrupt temperature change, which may cause condensation or deterioration of the product or liquid leakage.
(3)Do not store DYNACAP at a place where there is a possibility that they may get water, salt or oil spill.

④Do not store DYNACAP at place where the air contains dense hazardous gas (hydrogen sulfide, sulfurous acid, nitrous acid, chlorine ammonia, etc.).
⑤Do not store DYNACAP at a place where it gets ultraviolet ray or radioactive ray.

12. Capacitors fitted with a relief valve

①The relief valve is provided with a valve function with part of the case made thin to avoid explosion by increased internal pressure when the capacitor is under abnormal load such as overvoltage or reverse voltage. After activation of the relief valve, the capacitor must be replaced as it does not restore.

OFor the capacitors with a case relief valve, provide a void on the top of the relief valve so as not to hamper its activation. Make a void of 2 mm or more for the product of ø18 or less in diameter, and a void of 3 mm or more for the product of ø20 to ø35 mm in diameter on the top.

Mounting

1. When soldering the capacitor to the wiring board, do not attach the body of the capacitor to the circuit board.

If the body of the capacitor is attached directly to the circuit board, the flux or solder can blow through the through holes in the circuit board, negatively impacting the capacitor.

2. Do not overheat when soldered.

Depending on the type and size of the board, the product may be subjected to overheat, leading to loss of airtightness. This may greatly shorten the product life or cause liquid leakage.

In case of a 1.6mm-thick printed board. for example, keep the following soldering conditions: temperature lower then 260°C, time shorter than 5 seconds.

When a board thinner than 1.6 mm is used, contact us.

In the case of hand soldering, the iron tip temperature is lower than 360°C, time is shorter than 3 seconds.

The coin types and multilayer coin types excluding the DZ and reflowcompatible coin types use polypropylene as the pacing material for sealing and therefore susceptible to excessive heat. Note that the component body temperature shall be controlled so as not to exceed 90°C including preheating. Recommended preheating conditions are as shown below : Conditions : At the time of flow, the peak temperature on the rear of the thermal shield shall be 120°C or less, with the total heating time within 60 seconds. After that, dip the terminal tip of the component into the bath soldering temperature of 260 ± 3 °C for $5 \pm 1/-0$ seconds. The second flow, if conducted, shall be done after the product temperature has been cooled down to room temperature.

3. Contact us when cleaning is necessary after soldering.

Certain types of solvents are not compatible and may cause damage. Contact us when the product is attached by adhesive bonding.

Certain types of adhesives are not compatible. Paste bond partially between the product and the board so that the product

will not adhere completely to the board. Do not raise the temperature over the guaranteed value while the bond

is hardening.

5. Heating conditions of adhesive curing oven

During heating of the adhesive curing oven, application of excessive heat may significantly shorten the product life or cause liquid leakage. Control the body temperature so as not to exceed 90°C during work while setting the allowable atmospheric temperature below 110°C, and allowable heating time within 30 seconds.

For the heating conditions deviating from the above, consult with us providing your temperature profile conditions.

6. Be careful not to apply an excessive force to the capacitor body,

terminals or lead wires

Mount the capacitor while making sure that the terminal spacing of the capacitor and the spacing of the holes in the printed wiring board are aligned.

(2)If the capacitor body is subjected to stress such as grabbing, falling, pushing or twisting after mounted, its terminals may come off, leading to open, short or liquid leakage.

Other cautions

Emergency procedures
 If the DYNACAP overheats or starts to smell, immediately switch off the
 units main power supply to stop operation.

Keep your face and hands away from the DYNACAP, since the temperature may be high enough to cause the DYNACAP to ignite and burn.

2. Periodical inspections should be established fort he DYNACAP used in industrial appliances.

The following items should be checked:

①Appearance : Check if there is leakage.

②Electronic performance : Check the leakage current, the electrostatic, the internal resistance and other items described in the catalog or the product specifications.

3. Disposing of DYNACAP.

①Punch a hole or crush the DYNACAP (to prevent explosion) before incineration at approved facility.

O If they are not to be incinerated, bring them to a professional industrial waste disposal company.

4.Other note

Please refer to the following literature for anything not described in the product specifications or the catalog. (The Electronics Industry Association of Japan technical report #EIAJ RCR-2370 "The guideline of usage cautions for electric double layer capacitors for use with electronic appliances")



NOTE

ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

ΓΑΡΙΝG

Taping (applicable to Series DX only)

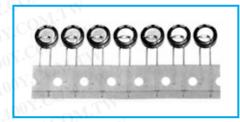
• For automatic insertion.

ELNA

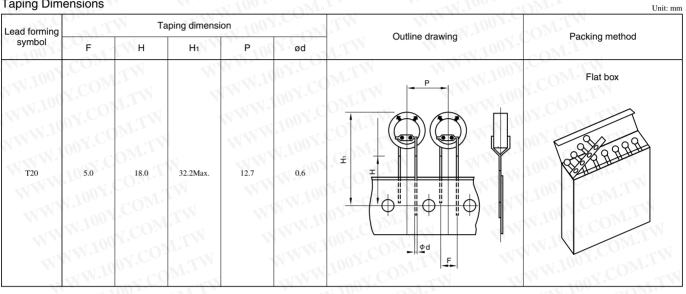
100Y.COM

• The ø11.5x12.4L size can encase up to 0.33F.

Part numbe	ering s	system (e	exan	nple: 5.5V0.1F	=)	Wn
DX		5R5	Ŀ	104	e	T20
Series code		Voltage	-	Rated capacitance code		Taping machining designation



Taping Dimensions



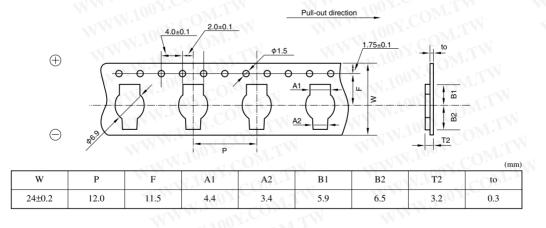
Minimum Packing Quantity

Minimum Packing quantity

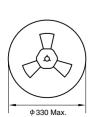
750 PCS.

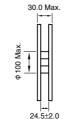
特力材料 886-3-5753170 勝 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw

Carrier tape dimension (DS, DSK series) polarity L



Reel dimension





Packing quantity

Quantity
1500PCS.





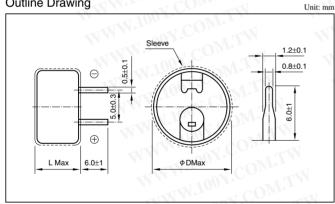
5.5V Standard Capacitors Series DB



Specifications

Item	No.	Perf	ormance		- A		N	
Category temperature range (°C)		-2	5 to +70					
Folerance at rated capacitance (%)	DO. WWW WY	<u>, -2</u>	0 to +80	NN	100	Y.C.	NT	
Internal resistance	Rated Capacitance (F)	0.047	0.1	0.22	0.33	0.47	1.0	
at 1 kHz	Internal resistance (Ω)	120	75	75	75	30	30	
Characteristics at high	Percentage of capacitance change	001 COF	With	nin ±30% of the valu	ie at 20°C		M	
and low temperature	Internal resistance	1001.00		than five times of t		1001	DMIT	
VIN 100	Test time	11002.0	1000) hours		1.1001.0	ONIT	
Endurance (70°C)	Percentage of capacitance change Within ±30% of the initial measured value						CON.3	
WWW	Internal resistance	. Yoor	With	in four times of the	initial specified	value	A	
Shelf life (70°C)	Test time :1000 hours ; Same as endurance.							

Outline Drawing



rt numbering system	m (example: 5.	5V0.047F)
DB —	5R5	D 473
Series code	Voltage Symbol	Rated capacitance code

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Standard Ratings

Max. operating voltage(V) 5.5	Rated capacitance(F) 0.047	ELNA Parts No. DB-5R5D473	ø DxL(mm) 13.5x7.5
5.5	0.1	DB-5R5D104	13.5x7.5
5.5	0.22	DB-5R5D224	13.5x7.5
5.5	0.33	DB-5R5D334	13.5x7.5
5.5	0.47	DB-5R5D474	21.5x8.0
5.5	1.0	DB-5R5D105	21.5x8.0



100Y.COM.TW ELNA®

Specifications

ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

5.5V Miniaturized Standard Capacitors Series DX

- Smaller and lighter than conventional Series DB.
- 5mm tall. Max. thin profile(H-shaped).
- Miniaturized but can encase up to 0.33F in 11.5x5mm case.





Unit: mm

(4.5)

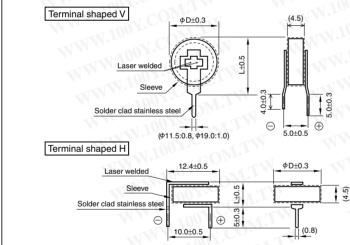
Marking color : White print on an indigo sleeve

Item			Perfo	rmance			
Category temperature range (°C)		CO IS NIVIT	-25				
Folerance at rated capacitance (%)	-20 to +80						
Internal resistance at 1 kHz	- Th	Rated Capacitance (F)	0.047	0.1	0.22	0.33	1.0
	1.1	Internal resistance (Ω)	120	75	75	75	30
W.100	M	W. IV	COM.			CONF.	
Characteristics at high	Percentage of capacitance change Within ±30% of the value at 20°C						
and low temperature	Internal resistance Less than five times of the value at 20°C						WT
100 1.	0		CON	-1	· WWW	<u> </u>	1
You You Y	Test time 1000 hours						M.T.Y
Endurance (70°C)	Pe	rcentage of capacitance change	Within ±30% of the initial measured value				Wn
W V 1001	· I.I.	Internal resistance	W	Within four	times of the initial sp	ecified value	DNr.
Shelf life (70°C)	1.Cor		Test time :1000 hou	ra · Sama as andurar		11002.0	TI

Terminal shaped L

Sleeve

Outline Drawing



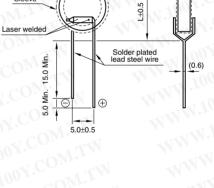
v

Terminal shaped

Ter	rminal shaped H				. 15
	Laser welded	12.4±0.5	φD±0.3		5.0 Min
	Solder clad stainless steel		i	(4.5)	
	Θ	10.0±0.5			
	WW	W.100 1.	WT	WW	N.100
Part numb	ering system (exam	ple: 5.5V0.1F	COMPTIN		勝特力

104

Rated capacitance code



φD±0.3

	勝特力材料 886-3-5753170
N 7	胜特力电子(上海) 86-21-54151736
N	胜特力电子(深圳) 86-755-83298787
1	Http://www.100y.com.tw

Standard Ratings

DX

Series code

Max. operating voltage(V)	Rated capacitance(F)	ELNA Parts No.	ø DxL(mm)
		DX-5R5V473	11.5x13.0
5.5	0.047	DX-5R5H473	11.5x 5.0
		DX-5R5L473	11.5x12.4
	N.V.	DX-5R5V104	11.5x13.0
5.5	0.1	DX-5R5H104	11.5x 5.0
	N.V.	DX-5R5L104	11.5x12.4
	A	DX-5R5V224	11.5x13.0
5.5	0.22	DX-5R5H224	11.5x 5.0
		DX-5R5L224	11.5x12.4
		DX-5R5V334	11.5x13.0
5.5	0.33	DX-5R5H334	11.5x 5.0
		DX-5R5L334	11.5x12.4
5.5	1.0	DX-5R5V105	19.0x20.5

5R5

Voltage Symbol



DXJ ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"



Unit: mm

5.5V Miniaturized High temperature Capacitors Series DXJ

- High temperature type of Series DX.
- 5mm tall. Max. thin profile(H-shaped).
- Miniaturized but can encase up to 0.33F in 11.5x5mm case.



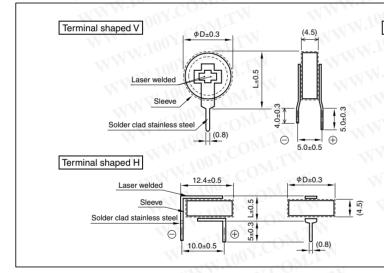


Marking color : Black print on an indigo sleeve

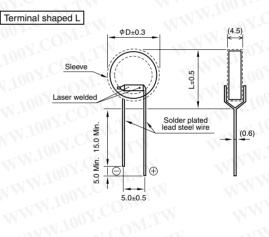
Specifications

Item		Performa	ance		
Category temperature range (°C)	I. WWW.L	-10 to +	85		Wn
Tolerance at rated capacitance (%)	N.I.M. M	-20 to +	80	N.100	ON.
Internal resistance	Rated Capacitance (F)	0.047	0.1	0.22	0.33
at 1 kHz	Internal resistance (Ω)	200	150	150	150
Characteristics at high and low temperature	Percentage of capacitance change Internal resistance	N.COM.TY	Within ±30% of the values than four times of		N.COM.TN
WWW.1005	Test time	100Y.COM	1000 hours	WWW.10	MT.MON.TN
Endurance (85°C)	Percentage of capacitance change Internal resistance	100× COM	Within ±30% of the in Within four times of t	nitial measured value he initial specified valu	ie OM-
Shelf life (85°C)	W.CO. TAN WWW	Test time :1000 hours ; S	Same as endurance.	4111	100Y.C.N.T

Outline Drawing



Pa	art number	ing sys	stem (exam	ple: 5.5V0.1F) V.COM
	DXJ	—	5R5	V	104
	Series code		Voltage Symbol	Terminal shaped	Rated capacitance code



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Standard Ratings

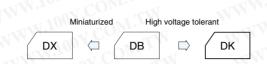
Symbol	shaped code	Http://ww	ww. 100y. com. tw
lard Ratings		ON.TW	001
Max. operating voltage(V)	Rated capacitance(F)	ELNA Parts No.	ø DxL(mm)
	N.IU	DXJ-5R5V473	11.5x13.0
5.5	0.047	DXJ-5R5H473	11.5x 5.0
	100 -	DXJ-5R5L473	11.5x12.4
	NIN IS	DXJ-5R5V104	11.5x13.0
5.5	0.1	DXJ-5R5H104	11.5x 5.0
		DXJ-5R5L104	11.5x12.4
	A	DXJ-5R5V224	11.5x13.0
5.5	0.22	DXJ-5R5H224	11.5x 5.0
		DXJ-5R5L224	11.5x12.4
		DXJ-5R5V334	11.5x13.0
5.5	0.33	DXJ-5R5H334	11.5x 5.0
		DXJ-5R5L334	11.5x12.4



NOTE Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.

High Voltage Tolerance Capacitors Series DK

- High voltage tolerant(6.3V guaranteed) and highly reliable.
- · Ideal for backing up of Li-battery-backed equipment such as cameras, VCR's and telephone sets.





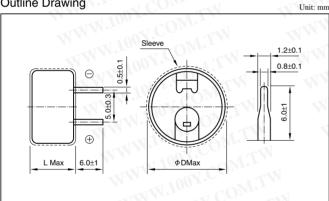
Marking color : White print on an indigo sleeve

Specifications Item Performance Category temperature range (°C) -25 to +70 Tolerance at rated capacitance (%) -20 to +80 Rated Capacitance (F) 0.047 0.1 0.47 0.68 1.0 Internal resistance at 1 kHz 300 200 50 Internal resistance (Ω) 50 30 Characteristics at high Percentage of capacitance change Within ±30% of the value at 20°C and low temperature Internal resistance less than five times of the value at 20°C Test time 1000 hours Within ±30% of the initial measured value Endurance (70°C) Percentage of capacitance change Internal resistance Within four times of the initial specified value Shelf life (70°C) Test time :1000 hours : Same as endurance

Outline Drawing

100Y.COM.TW

ELNA®



umbering sy	ystem	(example: 6	.3V0.47	F) CON
DK		6R3	D.	474
Series code	-	Voltage Symbol	5	ated capacitance code

Standard Ratings

Max. operating voltage(V)	Rated capacitance(F)	ELNA Parts No.	ø DxL(mm)
6.3	0.047	DK-6R3D473	13.5x9.5
6.3	0.1	DK-6R3D104	13.5x9.5
6.3	0.47	DK-6R3D474	21.5x9.5
6.3	0.68	DK-6R3D684	21.5x9.5
6.3	1.0	DK-6R3D105	21.5x9.5

W 44 b 11 10 000 0 5750150
勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw

ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"



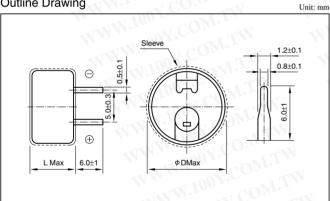
High-Temperature Capacitors Series DH

• High temperature tolerant(-25~+85°C) and highly reliable. • Ideal for backing up of controls, electronic rice cooking jars, home bakeries and the like. DH High temperature Miniaturized DX DB Marking color : White print on an indigo sleeve Specifications

Item		Pe	erformance				
Category temperature range (°C)	100 WT. 100	M	-25 to +85		x1.100 x	Mos	
Folerance at rated capacitance (%)	IO. WWW IV	N.Com	-20 to +80	NN.	100	1.00	WT
Internal resistance	Rated Capacitance (F)	0.047	0.1	0.22	0.47	0.68	1.0
at 1 kHz	Internal resistance (Ω)	300	200	120	50	50	30
Characteristics at high	Percentage of capacitance change	LOUY.CO	With	in ±30% of the va	lue at 20°C	N.CC	WT.
and low temperature	Internal resistance	I WE	less t	han five times of t	he value at 20°C	.Too	071.
01.WW	Test time	N.100 1	1000	hours	WW	V.Ino.	COM
Endurance (85°C)	Percentage of capacitance change	- 100 r.	With	in ±30% of the ini	tial measured valu	ıe	CON-
	Internal resistance		With	in four times of th	e initial specified	value	



D



OOY.COM.T			NW.100Y.COM
Part numbering sys	stem (e	example: 5	5.5V0.047F)
DH OM	7	5R5	D 473
Series code	1.14	Voltage Symbol	Rated capacitance code

DY.CONTRACTW	WWW.L
勝特力材料	886-3-5753170
胜特力电子(上海)	86-21-54151736
胜特力电子(深圳)	86-755-83298787
Http://www.	100y. com. tw

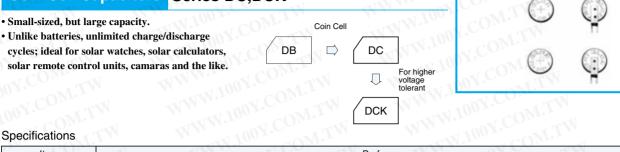
Standard Ratings

Max. operating voltage(V) 5.5	Rated capacitance(F) 0.047	ELNA Parts No. DH-5R5D473	ø DxL(mm) 13.5x9.5
5.5	0.1	DH-5R5D104	13.5x9.5
5.5	0.22	DH-5R5D224	13.5x9.5
5.5	0.47	DH-5R5D474	21.5x9.5
5.5	0.68	DH-5R5D684	21.5x9.5
5.5	1.0	DH-5R5D105	21.5x9.5



ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

Coin Cell Capacitors Series DC,DCK

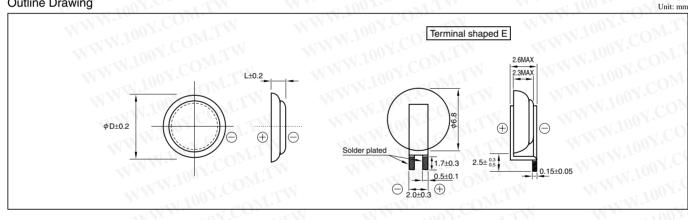


Item		Perform	mance	
Series Name		DC series	WW.	DCK series
Rated voltage (V)	UN WT	2.5	100	3.3
Category temperature range (°C)	VIII IVII	-25 to +70	WW TOOT	-10 to +60
Tolerance at rated capacitance (%)	M.I.	-20 to +80	W.W.	-20 to +80
Rated Capacitance (F)	W WITH	0.22	V V - 10	0.22
Internal resistance(Ω) at 1 kHz	DIV.	100	WWW	200
Characteristics at high	Percentage of capacitance change	Within ±30% of the value at 20°C	Percentage of capacitance change	Within ±50% of the value at 20°C
and low temperature	Internal resistance	Less than five times of the value at 20°C	Internal resistance	Within five times the initial specified value
WWW INT				THOM STORE
W.100	Test temperature	70°C	Test temperature	60°C
100	Test time	1000 hours	Test time	1000 hours
Endurance	Percentage of capacitance change	Within ±30% of the initial measured value	Percentage of capacitance change	Within ±30% of the initial measured value
WW.10	Internal resistance	Within four times of the initial specified value	Internal resistance	Within four times of the initial specified value
Shelf life	JUN TONE	Test time :1000 hours	; Same as endurance.	M.M. COMP.

Outline Drawing

100Y.COM.TW

ELNA®



DC	—	2R5	D	224
Series code	· -	Voltage Symbol	.100 .	Rated capacitance code

Part numbering	Part numbering system (example: 3.3V0.22F)				
DCK	0 1 .C	3R3	D	224	
Series code	- OV	Voltage		Rated capacitance code	

DC,DCK

Standard Ratings

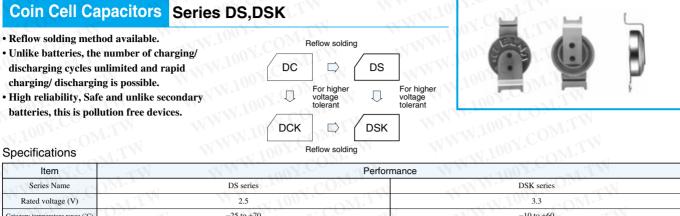
lard Ratings			
Max. operating voltage(V)	Rated capacitance(F)	ELNA Parts No.	ø DxL(mm)
2.5	0.22	DC-2R5D224	6.8x2.1
2.5	0.22	DC-2R5E224-E	0.8X2.1
3.3	0.22	DCK-3R3D224	<u>(</u> 9-2 1
	0.22	DCK-3R3E224-E	6.8x2.1

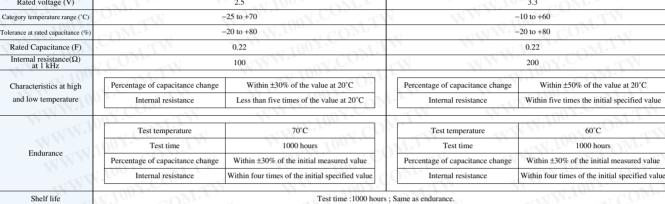
勝特力材料 886-3-5753170
胜特力电子(上海) 86-21-54151736
胜特力电子(深圳) 86-755-83298787
Http://www.100y.com.tw



DS, DSK ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

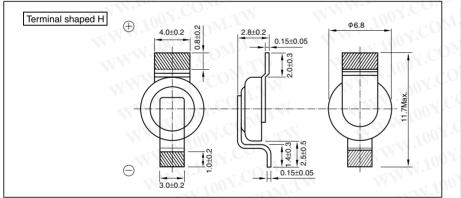






Unit: mm

Outline Drawing



Recommen	ded land pattern size	Unit: mi
TW		
WT.	5-0.5	
WT.IN		
M.TW	8.340.1	
OM.TW	TTTTT O	
COM.TV		
COM.1		
COM.		

DSK — 3R3 H 224 — H L
Series code Voltage Rated capacitance Terminal Tap Symbol code code code
W WWW.LOOY.COM. TW

Standard Ratings

Max. operating voltage(V)	Rated capacitance(F)	ELNA Parts No.	ø DxL(mm)
2.5	0.22	DS-2R5D224-HL	6.8x2.1
3.3	0.22	DSK-3R3H224-HL	6.8x2.1

* Reflow solding condition : 127 page.

勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-54151736 胜特力电子(深圳) 86-755-83298787 Http://www. 100y. com. tw





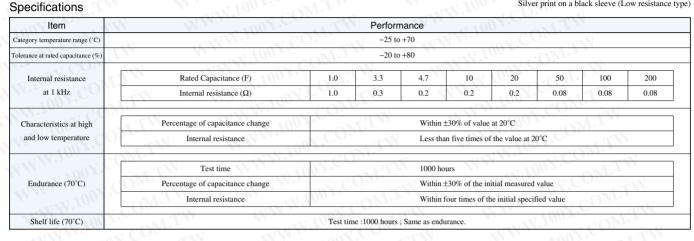
High power

ELECTRIC DOUBLE LAYER CAPACITORS "DYNACAP"

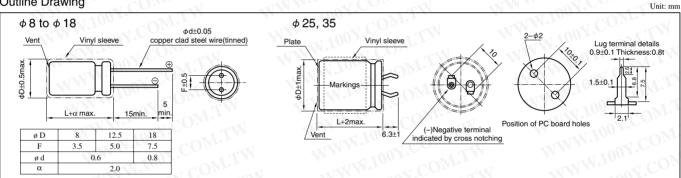
	COM	
type Capacitors	Series DZ	

Low internal resistance allows boosting	charge and heavy-current discharge.	0F 2.5 10F 2.5
(ampere level)		
Pollution-Free ; with no pollutants such	as Cd or Pb.	COM -
Unlimited number of charges	High power High power	A BENA ST
and discharges.		NT.N. YOUNT

Marking color : White print on a black sleeve (Standard type) Silver print on a black sleeve (Low resistance type)



Outline Drawing



Standard type Ratings

Max. operating voltage(V)	Rated capacitance(F)	Max. Leakage Current(mA) after 24h	urrent(mA) after 24h ELNA Parts No. Ø DxL(mm) 0.1 DZ-2R5D105 8.0x22.0		Real internal resistance(mΩ) at 1 kHz (reference value)
2.5	1.0	0.1			200
2.5	3.3	0.2	0.2 DZ-2R5D335 12.5x23.0		70
2.5	4.7	0.3	DZ-2R5D475	12.5x31.5	50
2.5	10	0.5	DZ-2R5D106	18.0x35.0	30
2.5	20	0.8	DZ-2R5D206	18.0x40.0	30
2.5	50	1.0	DZ-2R5D506	25.0x40.0	20
2.5	100	1.0	DZ-2R5D107	35.0x50.0	20
2.5	200	2.0	DZ-2R5D207S57	35.0x50.0	20

Low resistance type Ratings

Max. operating voltage(V)	Rated capacitance(F)	Max. Leakage Current(mA) after 24h	ELNA Parts No.	ø DxL(mm)	Real internal resistance(mΩ at 1 kHz (reference value)
2.5	1.0	0.1	DZ-2R5D105N	8.0x22.0	100
2.5	3.3	0.2	DZ-2R5D335N	12.5x23.0	40
2.5	4.7	0.3	DZ-2R5D475N	12.5x31.5	30
2.5	10	0.5	DZ-2R5D106N	18.0x35.0	20
2.5	20	0.8	DZ-2R5D206N	18.0x40.0	20
2.5	50	1.0	DZ-2R5D506N	25.0x40.0	15
2.5	100	1.0	DZ-2R5D107N	35.0x50.0	8

Part nur	nbering sys	tem	(examp	le: 2	2.5V10F)	
Standard	DZ	_	2R5	D	106	
type	Series code	-	Voltage Symbol	-	Rated capacitance code	
Low resistance	DZ	_	2R5	D	106	Ν
type	Series code	-	Voltage Symbol	-	Rated capacitance code	Low resistance symbol

NOTE Design, Specifications are subject to change without notice. Ask factory for technical specifications before purchase and/or use.

137

TECHNICAL DATA ELECTRIC DOUBLE LAYER CAPACITORS

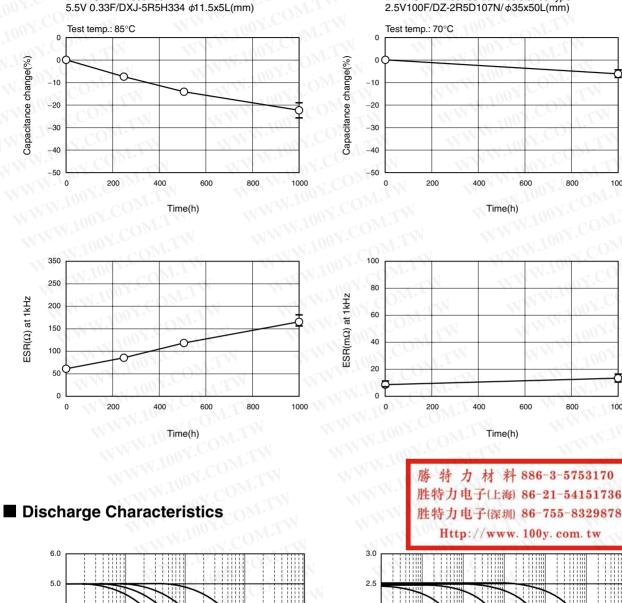


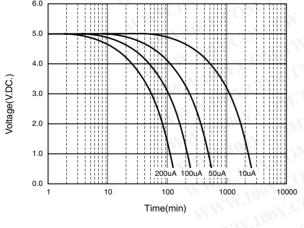
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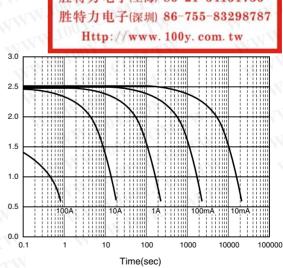
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Endurance

DYNACAP DXJseries







DYNACAP DZseries Low resistance type

Voltage(V.DC.)