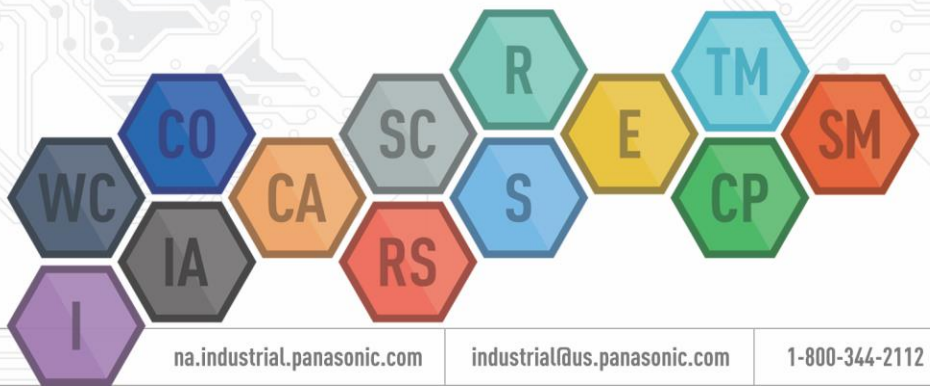


## Product Discontinuation Notice: Coin Type Electric Double Layer Capacitors (EDLC)

PDN.PG19.04.06.2018

04.06.2018

<b>Effective Date:</b>	Immediate
<b>Last Time Buy Date:</b>	December 31, 2019
<b>Last Eligible Ship Date:</b>	March 31, 2020
<b>Discontinuation Details:</b>	<p>As a manufacturer and supplier of Capacitors, Panasonic has been popular in the industry for many years. The competition in the development of the Capacitor industry is very strict and many types of Capacitors compete in the market. Our Coin Type EDLC are competing with Coin Type Batteries. So it is very difficult to predict a demand trend and in recent years Panasonic has not increased EDLC Coin Type production capacity.</p> <p>To strengthen market competitiveness, Panasonic accelerated cost reduction, promotion of product standardization and development of new products. However, in recent years there is a decline in productivity due to aged deterioration of production facilities and it is very difficult to satisfy supply responsibility.</p> <p>Panasonic has been making corporate efforts for our customers, but judging from the current business environment, will implement a last eligible ship date of <b>March 31, 2020</b>. We will fulfill our supply responsibility until then so our customers will not be inconvenienced.</p> <p>Finally, we concentrate management resources on the Aluminum Conductive Capacitor and Power Capacitor business using cylindrical winding cell business, and will continue to improve service and provide satisfactory products.</p> <p>We apologize for any inconveniences this may cause, but we appreciate your continued patronage of our products in the future.</p>



<b>Suggested Replacement:</b>	Please refer attached cross reference
<b>Affected Part Numbers:</b>	See attached.
<b>Datasheets:</b>	See attached.
<b>Notes:</b>	

## Panasonic PDN.PG19.04.06.2018REV2 EDLC Coin Type Capacitors

### Affected Parts

EEC-F5R5H104
EEC-F5R5H104A
EEC-F5R5H104N
EEC-F5R5H105
EEC-F5R5H105A
EEC-F5R5H105N
EEC-F5R5H474
EEC-F5R5H474A
EEC-F5R5H474N
EEC-F5R5H684
EEC-F5R5H684A
EEC-F5R5H684N
EEC-F5R5U105
EEC-F5R5U105A
EEC-F5R5U105C
EEC-F5R5U105N
EEC-F5R5U155
EEC-F5R5U155A
EEC-F5R5U155C
EEC-F5R5U155N
EEC-F5R5U224
EEC-F5R5U224A
EEC-F5R5U224N
EEC-F5R5U333
EEC-F5R5U474
EEC-F5R5U474A
EEC-F5R5U474N
EEC-LF0H105
EEC-RF0H104
EEC-RF0H104A
EEC-RF0H104N
EEC-RF0H105
EEC-RF0H105N
EEC-RF0H684
EEC-RF0H684A

EEC-RF0H684N
EEC-RF0V684
EEC-RG0V105H
EEC-RG0V105HA
EEC-RG0V105HN
EEC-RG0V105V
EEC-RG0V105VA
EEC-RG0V105VN
EEC-RG0V155H
EEC-RG0V155HN
EEC-RG0V155V
EEC-RG0V155VN
EEC-RG0V224H
EEC-RG0V224HA
EEC-RG0V224HN
EEC-RG0V224V
EEC-RG0V224VA
EEC-RG0V224VN
EEC-S0HD224H
EEC-S0HD224HA
EEC-S0HD224HN
EEC-S0HD224V
EEC-S0HD224VA
EEC-S0HD224VD
EEC-S0HD224VN
EEC-S0HD334H
EEC-S0HD334HA
EEC-S0HD334HG
EEC-S0HD334HN
EEC-S0HD334V
EEC-S0HD334VA
EEC-S0HD334VN
EEC-S5R5H105
EEC-S5R5H105A
EEC-S5R5H105D
EEC-S5R5H105N
EEC-S5R5H155
EEC-S5R5H155A
EEC-S5R5H155N
EEC-S5R5H474
EEC-S5R5H474A

EEC-S5R5H474N
EEC-S5R5V105
EEC-S5R5V105A
EEC-S5R5V105N
EEC-S5R5V155
EEC-S5R5V155A
EEC-S5R5V155N
EEC-S5R5V474
EEC-S5R5V474A
EEC-S5R5V474N
EEC-SE0H224
EEC-SE0H224N

# EDLC Coin Type Cross reference table

Note 1: Please contact the supplier directly for cross-reference specifications.

Different points are indicated in yellow.

Note 2: The specification of the P/N whose last letter is "U,R,Q,Y,W,X" is equivalent to the P/N from which the letter was removed.

Series	P/N	Item	Supplier	Series	Cross Ref. P/N	Voltage (V)	Cap. (F)	ESR (Ohm)	φ (mm)	H (mm)	Pitch (mm)	Reliability				Different point
												Temp. (deg.C)	Life (hours)	ΔCap. (%)	ESR (Ohm)	
SD	EECS0HD224V	ORG	Panasonic	SD		5.5	0.22	75	10.5	11.5	5.0	-25 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5V224U	5.5	0.22	75	11.5	13.0	5.0	-25 to +70	1000	+/-30	300	Size
		C.R.(2)	Korchip	DCS	DCS5R5224V	5.5	0.22	75	11.5	12.5	5.0	-25 to +70	1000	+/-30	300	Size
SD	EECS0HD224H	ORG	Panasonic	SD		5.5	0.22	75	10.5	6.0	10.0	-25 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5H224U	5.5	0.22	75	11.5	5.0	10.0	-25 to +70	1000	+/-30	300	Size
		C.R.(2)	Korchip	DCS	DCS5R5224H	5.5	0.22	75	11.5	5.5	10.0	-25 to +70	1000	+/-30	300	Size
SD	EECS0HD334V	ORG	Panasonic	SD		5.5	0.33	75	10.5	11.5	5.0	-25 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5V334U	5.5	0.33	75	11.5	13.0	5.0	-25 to +70	1000	+/-30	300	Size
		C.R.(2)	Korchip	DCS	DCS5R5334V	5.5	0.33	75	11.5	12.5	5.0	-25 to +70	1000	+/-30	300	Size
SD	EECS0HD334H	ORG	Panasonic	SD		5.5	0.33	75	10.5	6.5	10.0	-25 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5H334U	5.5	0.33	75	11.5	5.0	10.0	-25 to +70	1000	+/-30	300	Size
		C.R.(2)	Korchip	DCS	DCS5R5334H	5.5	0.33	75	11.5	5.5	10.0	-25 to +70	1000	+/-30	300	Size
SD	EECS0HD224VN	ORG	Panasonic	SD		5.5	0.22	75	10.5	11.5	5.0	-40 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5V224U	5.5	0.22	75	11.5	13.0	5.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
		C.R.(2)	Korchip	DCS	DCS5R5224V	5.5	0.22	75	11.5	12.5	5.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
SD	EECS0HD224HN	ORG	Panasonic	SD		5.5	0.22	75	10.5	6.0	10.0	-40 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5H224U	5.5	0.22	75	11.5	5.0	10.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
		C.R.(2)	Korchip	DCS	DCS5R5224H	5.5	0.22	75	11.5	5.5	10.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
SD	EECS0HD334VN	ORG	Panasonic	SD		5.5	0.33	75	10.5	11.5	5.0	-40 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5V334U	5.5	0.33	75	11.5	13.0	5.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
		C.R.(2)	Korchip	DCS	DCS5R5334V	5.5	0.33	75	11.5	12.5	5.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
SD	EECS0HD334HN	ORG	Panasonic	SD		5.5	0.22	75	10.5	6.5	10.0	-40 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5H334U	5.5	0.22	75	11.5	5.0	10.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
		C.R.(2)	Korchip	DCS	DCS5R5334H	5.5	0.22	75	11.5	5.5	10.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
NF	EECF5R5U224	ORG	Panasonic	NF		5.5	0.22	75	13.5	7.5	5.0	-25 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DB	DB-5R5D224T	5.5	0.22	75	13.5	7.5	5.0	-25 to +70	1000	+/-30	300	
		C.R.(2)	Korchip	DCS	DCS5R5334C	5.5	0.22	75	13.5	6.5	5.0	-25 to +70	1000	+/-30	300	
NF	EECF5R5U474	ORG	Panasonic	NF		5.5	0.47	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DB	DB-5R5D474T	5.5	0.47	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(2)	Korchip	DCS	DCS5R5474C	5.5	0.47	50	13.5	6.5	5.0	-25 to +70	1000	+/-30	200	ESR,Size
NF	EECF5R5U105	ORG	Panasonic	NF		5.5	1.0	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DB	DB-5R5D105T	5.5	1.0	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(2)	Korchip	DCL	DCL5R5105	5.5	1.0	30	21.5	7.5	5.0	-25 to +70	1000	+/-30	120	Size
NF	EECF5R5U155	ORG	Panasonic	NF		5.5	1.5	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DB	DB-5R5D155T	5.5	1.5	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(2)	Korchip	DCL	DCL5R5155	5.5	1.5	30	21.5	7.5	5.0	-25 to +70	1000	+/-30	120	Size
NF	EECF5R5U224N	ORG	Panasonic	NF		5.5	0.22	75	13.5	7.5	5.0	-40 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DB	DB-5R5D224T	5.5	0.22	75	13.5	7.5	5.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee
		C.R.(2)	Korchip	DCS	DCS5R5334C	5.5	0.22	75	13.5	6.5	5.0	-25 to +70	1000	+/-30	300	-40 °C without guarantee, Size
NF	EECF5R5U474N	ORG	Panasonic	NF		5.5	0.47	30	21.5	8.0	5.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DB	DB-5R5D474T	5.5	0.47	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee
		C.R.(2)	Korchip	DCS	DCS5R5474	5.5	0.47	50	13.5	6.5	5.0	-25 to +70	1000	+/-30	200	-40 °C without guarantee,ESR,Size
NF	EECF5R5U105N	ORG	Panasonic	NF		5.5	1.0	30	21.5	8.0	5.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DB	DB-5R5D105T	5.5	1.0	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee
		C.R.(2)	Korchip	DCL	DCL5R5105C	5.5	1.0	30	21.5	7.5	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size
NF	EECF5R5U155N	ORG	Panasonic	NF		5.5	1.5	30	21.5	8.0	5.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DB	DB-5R5D155T	5.5	1.5	30	21.5	8.0	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee
		C.R.(2)	Korchip	DCL	DCL5R5155C	5.5	1.5	30	21.5	7.5	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size

# EDLC Coin Type Cross reference table

Note 1: Please contact the supplier directly for cross-reference specifications. Different points are indicated in yellow.

Note 2: The specification of the P/N whose last letter is "U,R,Q,Y,W,X" is equivalent to the P/N from which the letter was removed.

Series	P/N	item	Supplier	Series	Cross Ref. P/N	Voltage (V)	Cap. (F)	ESR (Ohm)	φ (mm)	H (mm)	Pitch (mm)	Reliability				Different point
												Temp. (deg.C)	Life (hours)	ΔCap. (%)	ESR (Ohm)	
SG	EECS5R5V474	ORG	Panasonic	SG		5.5	0.47	30	19.0	21.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DX	DX-5R5V474U	5.5	0.47	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	Size
		C.R.(2)	Korchip	DCS	DCL5R5474V	5.5	0.47	50	11.5	12.5	5.0	-25 to +70	1000	+/-30	200	ESR,Size
SG	EECS5R5H474	ORG	Panasonic	SG		5.5	0.47	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	-	-	-											
		C.R.(2)	Korchip	DCS	DCS5R5474H	5.5	0.47	50	11.5	5.5	10.0	-25 to +70	1000	+/-30	200	ESR,Size
SG	EECS5R5V105	ORG	Panasonic	SG		5.5	1.0	30	19.0	21.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DX	DX-5R5V105U	5.5	1.0	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	
		C.R.(2)	Korchip	DCL	DCL5R5105V	5.5	1.0	30	19.0	19.5	5.0	-25 to +70	1000	+/-30	120	
SG	EECS5R5H105	ORG	Panasonic	SG		5.5	1.0	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	-	-	-											
		C.R.(2)	Korchip	DCL	DCL5R5105H	5.5	1.0	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	
SG	EECS5R5V155	ORG	Panasonic	SG		5.5	1.0	30	19.0	21.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DX	DX-5R5V155U	5.5	1.0	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	Size
		C.R.(2)	Korchip	DCL	DCL5R5155V	5.5	1.0	30	19.0	19.5	5.0	-25 to +70	1000	+/-30	120	Size
SG	EECS5R5H155	ORG	Panasonic	SG		5.5	1.5	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	-	-	-											
		C.R.(2)	Korchip	DCL	DCL5R5155H	5.5	1.5	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	Size
SG	EECS5R5V474N	ORG	Panasonic	SG		5.5	0.47	30	19.0	21.0	5.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DX	DX-5R5V474U	5.5	0.47	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size
		C.R.(2)	Korchip	DCS	DCS5R5474V	5.5	0.47	50	11.5	12.5	5.0	-25 to +70	1000	+/-30	200	-40 °C without guarantee,ESR,Size
SG	EECS5R5H474N	ORG	Panasonic	SG		5.5	0.47	30	19.0	6.5	10.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	-	-	-											
		C.R.(2)	Korchip	DCS	DCS5R5474H	5.5	0.47	50	11.5	5.5	10.0	-25 to +70	1000	+/-30	200	-40 °C without guarantee,ESR,Size
SG	EECS5R5V105N	ORG	Panasonic	SG		5.5	1.0	30	19.0	21.0	5.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DX	DX-5R5V155U	5.5	1.0	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size
		C.R.(2)	Korchip	DCL	DCL5R5155V	5.5	1.0	30	19.0	19.5	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee,ESR,Size
SG	EECS5R5H105N	ORG	Panasonic	SG		5.5	1.0	30	19.0	6.5	10.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	-	-	-											
		C.R.(2)	Korchip	DCL	DCL5R5155H	5.5	1.0	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size
SG	EECS5R5V155N	ORG	Panasonic	SG		5.5	1.5	30	19.0	21.0	5.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DX	DX-5R5V155U	5.5	1.5	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size
		C.R.(2)	Korchip	DCL	DCL5R5155V	5.5	1.5	30	19.0	19.5	5.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size
SG	EECS5R5H155N	ORG	Panasonic	SG		5.5	1.5	30	19.0	6.5	10.0	-40 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	-	-											
		C.R.(2)	Korchip	DCL	DCL5R5155H	5.5	1.5	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	-40 °C without guarantee, Size
F	EECF5R5H104	ORG	Panasonic	F		5.5	0.1	100	13.6	9.5	5.0	-25 to +85	1000	+/-30	400	
		C.R.(1)	ELNA	DH	DH-5R5D104T	5.5	0.1	200	13.5	9.5	5.0	-25 to +85	1000	+/-30	800	ESR
		C.R.(2)	-	-	-											
F	EECF5R5H474	ORG	Panasonic	F		5.5	0.47	75	21.5	9.5	5.0	-25 to +85	1000	+/-30	300	
		C.R.(1)	ELNA	DH	DH-5R5D474T	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	ESR
		C.R.(2)	Korchip	DCLT	DCLT5R5474	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	ESR
F	EECF5R5H684	ORG	Panasonic	F		5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
		C.R.(1)	ELNA	DH	DH-5R5D684T	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
		C.R.(2)	Korchip	DCLT	DCLT5R5684	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
F	EECF5R5H105	ORG	Panasonic	F		5.5	1.0	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
		C.R.(1)	ELNA	DH	DH-5R5D105T	5.5	1.0	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
		C.R.(2)	Korchip	DCLT	DCLT5R5105	5.5	1.0	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	

# EDLC Coin Type Cross reference table

Note 1: Please contact the supplier directly for cross-reference specifications.

Different points are indicated in yellow.

Note 2: The specification of the P/N whose last letter is "U,R,Q,Y,W,X" is equivalent to the P/N from which the letter was removed.

Series	P/N	item	Supplier	Series	Cross Ref. P/N	Voltage (V)	Cap. (F)	ESR (Ohm)	φ (mm)	H (mm)	Pitch (mm)	Reliability				Different point
												Temp. (deg.C)	Life (hours)	ΔCap. (%)	ESR (Ohm)	
F	EECF5R5H104N	ORG	Panasonic	F		5.5	0.1	100	13.6	9.5	5.0	-40 to +85	1000	+/-30	400	-40 °C without guarantee,ESR
		C.R.(1)	ELNA	DH	DH-5R5D104T	5.5	0.1	200	13.5	9.5	5.0	-25 to +85	1000	+/-30	800	
		C.R.(2)	-													
F	EECF5R5H474N	ORG	Panasonic	F		5.5	0.47	75	21.5	9.5	5.0	-40 to +85	1000	+/-30	300	-40 °C without guarantee,ESR
		C.R.(1)	ELNA	DH	DH-5R5D474T	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
		C.R.(2)	Korchip	DCLT	DCLT5R5474	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
F	EECF5R5H684N	ORG	Panasonic	F		5.5	0.47	50	21.5	9.5	5.0	-40 to +85	1000	+/-30	200	-40 °C without guarantee
		C.R.(1)	ELNA	DH	DH-5R5D684T	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
		C.R.(2)	Korchip	DCLT	DCLT5R5684	5.5	0.47	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	
RG	EECRG0V224V	ORG	Panasonic	RG		3.6	0.22	50	10.5	11.5	5.0	-25 to +85	2000	+/-30	100	Size,ESR
		C.R.(1)	ELNA	DXS	DXS-3R6V224U	3.6	0.22	25	11.5	13.0	5.0	-25 to +85	2000	+/-30	125	
		C.R.(2)	-													
RG	EECRG0V224H	ORG	Panasonic	RG		3.6	0.22	50	10.5	11.5	10.0	-25 to +85	2000	+/-30	100	Size,ESR
		C.R.(1)	ELNA	DXS	DXS-3R6H224U	3.6	0.22	25	11.5	13.0	10.0	-25 to +85	2000	+/-30	125	
		C.R.(2)	-													
RG	EECRG0V105V	ORG	Panasonic	RG		3.6	1.0	20	19.0	21.0	5.0	-25 to +85	2000	+/-30	40	Size,ESR
		C.R.(1)	ELNA	DXS	DXS-3R6H105U	3.6	1.0	20	19.0	20.5	5.0	-25 to +85	2000	+/-30	100	
		C.R.(2)	-													
RG	EECRG0V105H	ORG	Panasonic	RG		3.6	1.0	20	19.0	6.5	10.0	-25 to +85	2000	+/-30	40	85 °C without guarantee,Voltage,ESR,life time
		C.R.(1)	-													
		C.R.(2)	Korchip	DCL	DCL5R5105H	5.5	1.0	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	
RG	EECRG0V155V	ORG	Panasonic	RG		3.6	1.5	20	19.0	21.0	5.0	-25 to +85	2000	+/-30	40	85 °C without guarantee,Voltage,ESR,life time
		C.R.(1)	ELNA	DX	DX-5R5V155U	5.5	1.5	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	
		C.R.(2)	Korchip	DCL	DCL5R5155V	5.5	1.5	30	19.0	19.5	5.0	-25 to +70	1000	+/-30	120	
RG	EECRG0V155H	ORG	Panasonic	RG		3.6	1.5	20	19.0	6.5	10.0	-25 to +85	2000	+/-30	40	85 °C without guarantee,Voltage,ESR,life time
		C.R.(1)	-													
		C.R.(2)	Korchip	DCL	DCL5R5155H	5.5	1.5	30	19.0	6.5	10	-25 to +70	1000	+/-30	120	
RG	EECRG0V224VN	ORG	Panasonic	RG		3.6	0.22	50	10.5	11.5	5.0	-40 to +85	2000	+/-30	100	-40 °C without guarantee,ESR,Size
		C.R.(1)	ELNA	DXS	DXS-3R6V224U	3.6	0.22	25	11.5	13.0	5.0	-25 to +85	2000	+/-30	125	
		C.R.(2)	-													
RG	EECRG0V224HN	ORG	Panasonic	RG		3.6	0.22	50	10.5	6.0	10.0	-40 to +85	2000	+/-30	100	-40 °C without guarantee,ESR,Size
		C.R.(1)	ELNA	DXS	DXS-3R6H224U	3.6	0.22	25	11.5	13.0	10.0	-25 to +85	2000	+/-30	125	
		C.R.(2)	-													
RG	EECRG0V105VN	ORG	Panasonic	RG		3.6	1.0	20	19.0	21.0	5.0	-40 to +85	2000	+/-30	40	-40 °C without guarantee,ESR,Size
		C.R.(1)	ELNA	DXS	DXS-3R6H105U	3.6	1.0	20	19.0	20.5	5.0	-25 to +85	2000	+/-30	100	
		C.R.(2)	-													
RG	EECRG0V105HN	ORG	Panasonic	RG		3.6	1.0	20	19.0	6.5	10.0	-40 to +85	2000	+/-30	40	-40and+85 °C without guarantee,Voltage,ESR,life time
		C.R.(1)	-													
		C.R.(2)	Korchip	DCL	DCL5R5105H	5.5	1.0	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	
RG	EECRG0V155VN	ORG	Panasonic	RG		3.6	1.5	20	19.0	21.0	5.0	-40 to +85	2000	+/-30	40	-40and+85 °C without guarantee,Voltage,ESR,life time
		C.R.(1)	ELNA	DX	DX-5R5V155U	5.5	1.5	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	
		C.R.(2)	Korchip	DCL	DCL5R5155V	5.5	1.5	30	19.0	19.5	5.0	-25 to +70	1000	+/-30	120	
RG	EECRG0V155HN	ORG	Panasonic	RG		3.6	1.5	20	19.0	6.5	10.0	-40 to +85	2000	+/-30	40	-40and+85 °C without guarantee,Voltage,ESR,life time
		C.R.(1)	-													
		C.R.(2)	Korchip	DCL	DCL5R5155H	5.5	1.5	30	19.0	6.5	10.0	-25 to +70	1000	+/-30	120	
RF	EECRF0H104	ORG	Panasonic	RF		5.5	0.1	75	13.5	9.5	5.0	-25 to +85	2000	+/-30	150	Size,ESR,Life time,
		C.R.(1)	ELNA	DHC	DHC5R5D104T	5.5	0.1	200	13.5	9.5	5.0	-25 to +85	3000	+/-30	800	
		C.R.(2)	-													



# EDLC Coin Type Cross reference table

Note 1: Please contact the supplier directly for cross-reference specifications.

Different points are indicated in yellow.

Note 2: The specification of the P/N whose last letter is "U,R,Q,Y,W,X" is equivalent to the P/N from which the letter was removed.

Series	P/N	item	Supplier	Series	Cross Ref. P/N	Voltege (V)	Cap. (F)	ESR (Ohm)	φ (mm)	H (mm)	Pitch (mm)	Reliability				Different point
												Temp. (deg.C)	Life (hours)	ΔCap. (%)	ESR (Ohm)	
RF	EECRF0H684	ORG	Panasonic	RF		5.5	0.68	20	21.5	9.5	5.0	-25 to +85	2000	+/-30	40	Size,ESR,Life time,
		C.R.(1)	ELNA	DHC	DHC5R5D684T	5.5	0.68	50	21.5	9.5	5.0	-25 to +85	3000	+/-30	250	
		C.R.(2)	-													
RF	EECRF0H105	ORG	Panasonic	RF		5.5	1.0	20	21.5	9.5	5.0	-25 to +85	2000	+/-30	40	Size,ESR,Life time,
		C.R.(1)	ELNA	DHC	DHC5R5D105T	5.5	1.0	30	21.5	9.5	5.0	-25 to +85	3000	+/-30	150	
		C.R.(2)	-													
RF	EECRF0H104N	ORG	Panasonic	RF		5.5	0.1	75	13.5	9.5	5.0	-40 to +85	2000	+/-30	150	Life time, ESR
		C.R.(1)	ELNA	DHL	DHL5R5D104T	5.5	0.1	40	13.5	9.5	5.0	-40 to +85	1000	+/-30	160	
		C.R.(2)	-													
RF	EECRF0H684N	ORG	Panasonic	RF		5.5	0.68	20	21.5	9.5	5.0	-40 to +85	2000	+/-30	40	Life time, ESR
		C.R.(1)	ELNA	DHL	DHL5R5D684T	5.5	0.68	20	21.5	9.5	5.0	-40 to +85	1000	+/-30	80	
		C.R.(2)	-													
RF	EECRF0H105N	ORG	Panasonic	RF		5.5	1.0	20	21.5	9.5	5.0	-40 to +85	2000	+/-30	40	Life time, ESR
		C.R.(1)	ELNA	DHL	DHL5R5D105T	5.5	1.0	20	21.5	9.5	5.0	-40 to +85	1000	+/-30	80	
		C.R.(2)	-													
LF	EECLF0H105	ORG	Panasonic	LF		5.5	1.0	20	21.5	9.5	5.0	-40 to +85	6000	+/-30	120	Life time, ESR
		C.R.(1)	ELNA	DHL	DHL5R5D105T	5.5	1.0	20	21.5	9.5	5.0	-40 to +85	1000	+/-30	80	
		C.R.(2)	-													
SE	EECSE0H224	ORG	Panasonic	SE		5.5	0.22	75	10.5	13.4	5.0	-25 to +70	1000	+/-30	300	Taping type
		C.R.(1)	ELNA	DX	DX-5R5V224U	5.5	0.22	75	11.5	13.0	5.0	-25 to +70	1000	+/-30	300	Size, Not taping item
		C.R.(2)	Korchip	DCS	DCS5R5224-V	5.5	0.22	75	11.5	12.5	5.0	-25 to +70	1000	+/-30	300	Size, Not taping item
SE	EECSE0H224N	ORG	Panasonic	SE		5.5	0.22	75	10.5	13.4	5.0	-25 to +70	1000	+/-30	300	Taping type
		C.R.(1)	ELNA	DX	DX-5R5V224U	5.5	0.22	75	11.5	13.0	5.0	-25 to +70	1000	+/-30	300	Size, Not taping item
		C.R.(2)	Korchip	DCS	DCS5R5224-V	5.5	0.22	75	11.5	12.5	5.0	-25 to +70	1000	+/-30	300	Size, Not taping item
SE	EECSE0H224U	ORG	Panasonic	SE		5.5	0.22	75	10.5	13.4	5.0	-25 to +70	1000	+/-30	300	Taping type
		C.R.(1)	ELNA	DX	DX-5R5V224U	5.5	0.22	75	11.5	13.0	5.0	-25 to +70	1000	+/-30	300	Size, Not taping item
		C.R.(2)	Korchip	DCS	DCS5R5224-V	5.5	0.22	75	11.5	12.5	5.0	-25 to +70	1000	+/-30	300	Size, Not taping item
SG	EECS5R5V155	ORG	Panasonic	SG		5.5	1.0	30	19.0	21.0	5.0	-25 to +70	1000	+/-30	120	
		C.R.(1)	ELNA	DX	DX-5R5V155U	5.5	1.0	30	19.0	20.5	5.0	-25 to +70	1000	+/-30	120	Size
		C.R.(2)	Korchip	DCL	DCL5R5155V	5.5	1.0	30	19.0	19.5	5.0	-25 to +70	1000	+/-30	120	Size
SD	EECS0HD224HD	ORG	Panasonic	SD		5.5	0.22	75	10.5	6.0	10.0	-25 to +70	1000	+/-30	300	
		C.R.(1)	ELNA	DX	DX-5R5H224U	5.5	0.22	75	11.5	5.0	10.0	-25 to +70	1000	+/-30	300	Size
		C.R.(2)	Korchip	DCS	DCS5R5224H	5.5	0.22	75	11.5	5.5	10.0	-25 to +70	1000	+/-30	300	Size
F	EECF5R5H105N	ORG	Panasonic	F		5.5	1.0	50	21.5	9.5	5.0	-40 to +85	1000	+/-30	200	
		C.R.(1)	ELNA	DH	DH-5R5D105T	5.5	1.0	30	21.5	9.5	5.0	-25 to +85	1000	+/-30	120	-40 °C without guarantee,ESR
		C.R.(2)	Korchip	DCLT	DCLT5R5105	5.5	1.0	50	21.5	9.5	5.0	-25 to +85	1000	+/-30	200	-40 °C without guarantee,ESR
RF	EECRF0V684	ORG	Panasonic	RF		5.5	0.68	20	21.5	9.5	5.0	-25 to +85	2000	+/-30	40	
		C.R.(1)	ELNA	DHC	DHC5R5D684T	5.5	0.68	50	21.5	9.5	5.0	-25 to +85	3000	+/-30	250	Size,ESR,Life time,
		C.R.(2)	-													