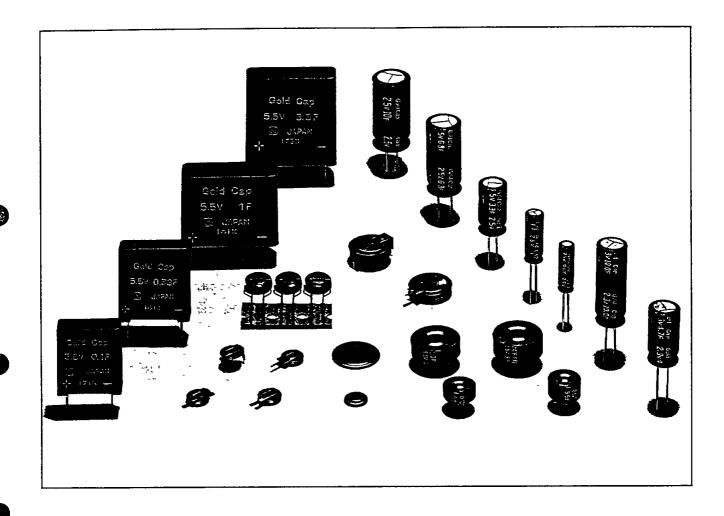
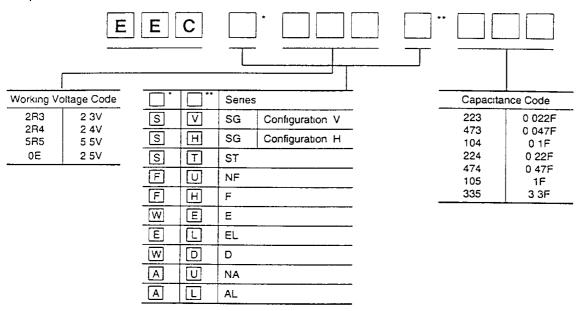
Gold Capacitors

For IC Memory Back-up & Energy Storage



Series	Load Current	Working Voltage [V DC]	Nominal Capacitance Range [F]	Capacitance Tolerance [%]	Operating Temperature Range [*C]	High Temperature Loading	Page
\$G	μA range	5 5	0 022 to 1 0	-20 to +80	-25 to +70	1000 hours at +70°C	6
ST	μA range	55	0 022 to 0 22	-20 to +80	-25 to +70	1000 hours at +70°C	7
NF	μA range	5 5	0 022 to 1 0	-20 to +80	-25 to +70	1000 hours at +70°C	8
F	μA range	5 5	0 033 to 0 68	-20 to +80	-25 to +85	1000 hours at +85°C	9
Е	μA range	2 4	0 33 to 0 68	-20 to +80	-25 to +70	1000 hours at +70°C	10
EL	μA range	2 5	0 33 to 2.0	-20 to +80	-25 to +70	1000 hours at +70°C	11, 12
		5.5	0 1 & 0 33	-20 to +80	-25 to +70	1000 hours at +70°C	13
D	mA range	33	10&33	-20 to +40	-23 10 +70	1000 1100/3 at +70 0	
NA	mA range	23	1 5 to 10	-20 to +40	-10 to +70	1000 hours at +70°C	14
AL	mA to A range	25	0 22 to 10	-20 to +80	-40 to +70	1000 hours at +70°C	14

Explanation of Part Numbers



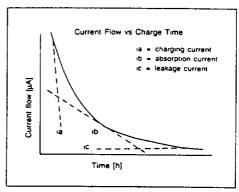
Application Note

- 1 Gold Capacitors are not suitable for rapid charge and discharge applications and usage in this mode is not recommended Internal heat generated by this type of operation may result in reduction of capacitance, mechanical damage and degradation of other electrical parameters
- 2 Do not apply a voltage in excess of the capacitor rated working voltage.
- 3 Filtering applications where ripple currents are present are not recommended.
- 4 Cleaning with Halogenated Hydrocarbon solvents
 - a) Immersion (ultrasonic wave is acceptable) and/or vapor methods at a temperature of boiling point or less at 1 atm
 - b) Cleaning time, ≤ 5 minutes (total)
- 5 Capacitor life is highly dependent upon ambient operating temperature. Do not operate or subject the capacitor to temperatures in excess of its rating For achieving the greatest life expectancy, it is recommended to operate at a reduced temperature
- Operation under high humidity, moisture laden or corrosive gaseous atmosphres are not recommended Because terminals and/or cases may corrode and cause an open circuit
- 7 Excessive thermal stress during soldering may cause leakage of electrolyte and degradation of electrical properties. Recommended soldering conditions are as follows Solder path temperature, ≤ +260°C-Immersion time, ≤ 10 seconds.

Definition of Inflow Current

"Inflow Current" in STANDARD PRODUCTS TABLE is defined as the current flow after a 30, a 60 or a 90 minute charge period at rated working voltage +20°C.

This current flow is the term given to the combination of currents flowing in a Gold Capacitor during its charge cycle. Unlike other capacitors, a Gold Capacitor takes longer to charge because of its high capacitance. The current flow in a Gold Capacitor passes through three phases.



The charging current (ia) is that current which the capacitor stores and is available for discharge

The absorption current (ib) is that current which is absorbed by the capacitor and is not available for discharge.

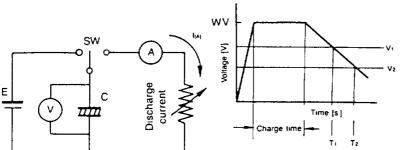
The leakage current (ic) is that current which flows through the capacitor due to the resistive losses of dielectric

The reading of current flow after approximately 100 hours application of rated working voltage would present leakage current

Measurement Procedures

Initialization of test samples. Prior to test, Capacitors shall be charged at rated working voltage for 2 hours and discharged in short circuit for 12 to 24 hours under the condition of $\pm 20^{\circ}$ C $\pm 10^{\circ}$ C and $65\% \pm 10\%$ RH

1) Capacitance

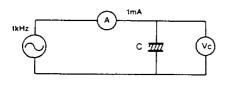


	SG, ST, NF, F Series	E, EL Series	D Senes	NA, AL Series
Charge time	30 min	30 min	60 min	60 min
V ₁	3 0V	1 5V	3 0V	1 0V
V ₂	2 5V	1 0V	2 5V	0 5V

 $C[F] = \frac{I[A] \times (T_2 - T_1) [s]}{V_1 - V_2[V]}$

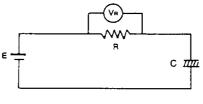
The discharge current shall be calculated by the capacitance value in a ratio of 1mA/F

2) Internal Resistance



$$Z[\Omega] = \frac{Vc}{10^{-3}}$$

3) Inflow Current



 $I[A] = \frac{VR}{R}$

Inflow current shall be measured after a 30, a 60 or a 90 minute application of the rated working voltage

Characteristics

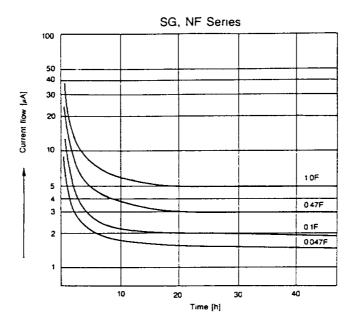
- Charing Characteristics
- Terminal Voltage vs Times (+20°C)

(Note)

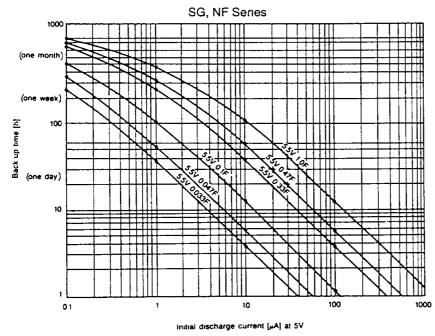
Measuring conditions

After being shorted for 60 minutes at +20°C, the capacitor is charged up to 5V DC through the series resistor specified in the graph connected to a 5V power supply

- Charging Characteristics (continued)
- Current Flow vs Charge Time (+20°C)

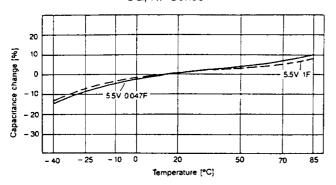


- Holding Characteristics
- Discharge Current vs Back-up Time (+20°C)

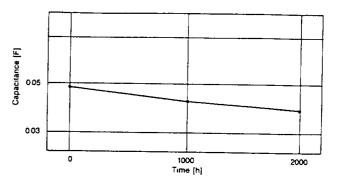


The back-up time is defined as the time taken for the capacitor to discharge from 5VDC to 2VDC with a constant resistive load.

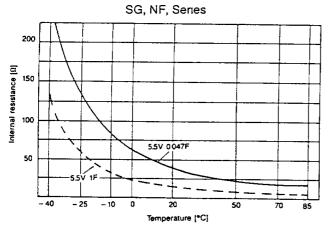
- Temperature Characteristics
- Capacitance vs Temperature SG, NF Series



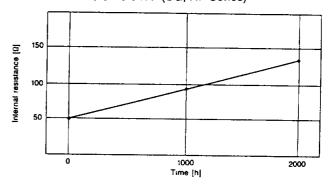
- High Temperature Loading (+70°C)
- Capacitance vs Time
 5 5V 0 047F (SG, NF Series)



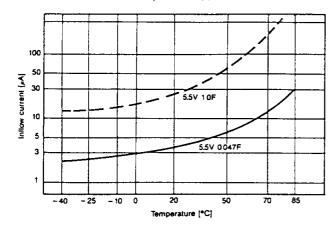
Internal Resistance (1kHz) vs Temperature



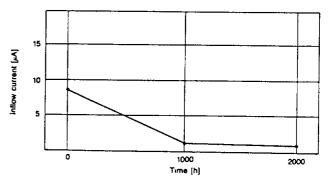
Internal Resistance vs Time
 5 5V 0 047F (SG, NF Series)



 Inflow Current vs Temperature SG. NF Series



• Inflow Current vs Time 5 5V 0.047F (SG, NF Series)



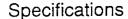
Gold Capacitor Series SG

Features

- IC memory back-up device (µA range load)
- Volumetric efficiency (50% smaller than NF series)
- Light weight (1 2g)
- General purpose



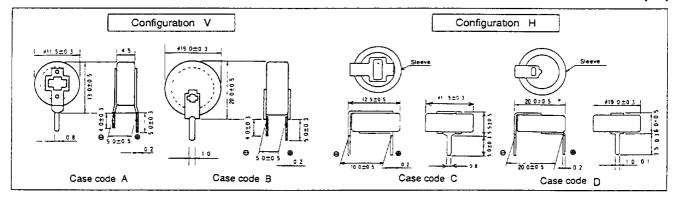




ltem		Performance Characteristics			
Operating Temperature Range	-25 to +70°C	-25 to +70°C			
Rated Working Voltage	5 5V DC				
Nominal Capacitance Range	0 022F to 1.0F (+2	0,C)			
Capacitance Tolerance	-20% to +80%				
Inflow Current	Refer to "Standard	products table" for each v	alue		
Internal Resistance	Refer to "Standard	Refer to "Standard products table" for each value			
	-25°C & +70°C	Capacitance change	≤±30% of the measured value at +20°C		
Characteristics at High and Low	-25°C	Internal resistance	≤ 5 times of the measured value at +20°C		
Temperature	+70°C	Inflow current	≤ 4 times of the measured value at +20°C		
High Temperature Loading	The capacitor shall meet the following limits after 1,000 hours application of 5.5V DC at +70°C Capacitance change : ≤ ±30% of the initial measured value Internal resistance ≤ 4 times of the initial specified value Inflow current ≤ 2 times of the initial specified value				
Shelf Life	The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hours exposure at +70°C with no voltage applied.				
Loading with Moisture	The capacitor shall meet the limits specified for "High Temperature Loading" after 500 hours exposure at +55°C/90 to 95% RH with 5 5V DC applied				

Dimensions

[mm]



Rated working voltage	Nominal capacitance	Part number*	Inflow current**	Internal resistance	Case code	
[V DC]	[F] Fait number		[μA]	[Ω] at 1kHz	V	Н
	0 022	EECS5R5 □ 223	40	150	A	С
	0 047	EECS5R5 □ 473	70	120	A	С
5.5	0 10	EECS5R5 □ 104	100	75	Α	C
	0 22	EECS5R5 □ 224	165	75	A	С
	0 47	EECS5R5 □ 474	215	30	В	D
	10	EECS5R5 🗆 105	315	30	В	D

^{* □ =} V (Configuration V) or H (Configuration H)

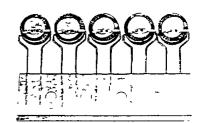


^{**} Inflow current shown in table is measured after 30 minutes application of rated working voltage. In actual use, this current will decrease to several µA level after approximately 10 hours application of rated working voltage.

Gold Capacitor Series ST

Features

- Lead taping type of SG series
- IC memory back-up device (µA range load)
- Volumetric efficiency (50% smaller than NF series)
- General purpose

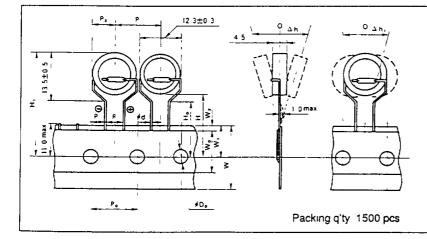


Specifications

ltem		Performance	Characteristics		
Operating Temperature Range	-25 to +70°C	-25 to +70°C			
Rated Working Voltage	5 5V DC				
Nominal Capacitance Range	0 022F to 0 22F (+2	20°C)			
Capacitance Tolerance	-20% to +80%				
Inflow Current	Refer to "Standard	products table" for each va	alue		
Internal Resistance	Refer to "Standard	Refer to "Standard products table" for each value			
	-25°C & +70°C	Capacitance change	≤ ±30% of the measured value at +20°C		
Characteristics at High and Low Temperature	-25°C	Internal resistance	≤ 5 times of the measured value at +20°C		
remperature	+70°C Inflow current		≤ 4 times of the measured value at +20°C		
High Temperature Loading	The capacitor shall +70°C Capacitance chall Internal resistance Inflow current	nge ≤±30% of the i e ≤4 times of the	Ifter 1,000 hours application of 5.5V DC at initial measured value a initial specified value a initial specified value		
Shelf Life	The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hours exposure at +70°C with no voltage applied				
Loading with Moisture		The capacitor shall meet the limits specified for "High Temperature Loading" after 500 hours exposure at +55°C/90 to 95% RH with 5 5V DC applied			

Dimensions

[mm]



Code	Dimensions	Tolerance
ød.	0.6	±0 05
Po	127	±0 2
F	50	±0.8
W	18 0	±0.5
W ₀	≩ 12.5	
W ₁	90	±0 5
W ₂	0-30	_
Ho	16 0	±0.5
1 +0	180	±0.5
φDo	40	±0 2
Р	12.7	±1 0
P _t	3 85	±0.5
P ₂	6 35	±1 0
Δh,Δh ₁	0	±1 0
H ₁	29 5(H ₀ .16)	±0.5
	31 5(Ho.18)	±0 5

Rated working voltage [V DC]	Nominal capacitance [F]	Part number	Inflow current* {µA}	Internal resistance [Ω] at 1kHz
	0 022	EECS5R5T223	40	150
5 5	0 047	EECS5R5T473	70	120
	0 10	EECS5R5T104	100	75
	0 22	EECS5R5T224	165	75

Inflow current shown in table is measured after 30 minutes application of rated working voltage. In actual use, this current will decrease to several µA level after approximately 10 hours application of rated working voltage.

Gold Capacitor Series NF

Features

- IC memory back-up device (µA range load)
- Large capacitance for long time back-up
- General purpose

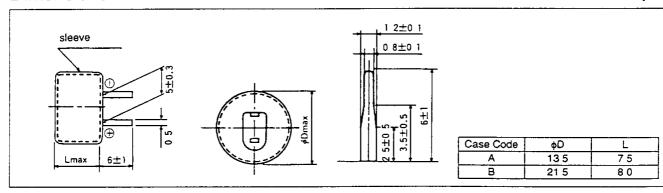




Specifications

Item		Performance	Characteristics		
Operating Temperature Range	-25 to +70°C				
Rated Working Voltage	5 5V DC				
Nominal Capacitance Range	0 022F to 1 0F (+20	0 022F to 1 0F (+20°C)			
Capacitance Tolerance	-20% to +80%				
Inflow Current	Refer to "Standard	products table" for each v	alue		
Internal Resistance	Refer to "Standard	Refer to "Standard products table" for each value			
	-25°C & +70°C	Capacitance change	≤ ±30% of the measured value at +20°C		
Characteristics at High and Low	-25°C	Internal resistance	≤ 5 times of the measured value at +20°C		
Temperature	+70°C	Inflow current	≤ 4 times of the measured value at +20°C		
High Temperature Loading	The capacitor shall +70°C Capacitance cha Internal resistanc Inflow current	nge $\leq \pm 30\%$ of the	after 1,000 hours application of 5 5V DC at initial measured value a initial specified value a initial specified value a initial specified value		
Shelf Life	The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hours exposure at +70°C with no voltage applied				
Loading with Moisture		meet the limits specified f 90 to 95% RH with 5 5V [or "High Temperature Loading" after 500 hours C applied		

Dimensions [mm]



Rated working voltage [V DC]	Nominal capacitance [F]	Case code	Part number	Inflow current* [μΑ]	Internal resistance [Ω] at 1kHz
	0 022	Α	EECF5R5U223	40	150
	0 033	Α	EECF5R5U333	60	150
5 5	0 047	Α	EECF5R5U473	70	120
	0 1	Α	EECF5R5U104	100	75
	0 22	Α	EECF5R5U224	165	75
	0 33	В	EECF5R5U334	180	40
	0 47	В	EECF5R5U474	215	30
	10	В	EECF5R5U105	315	30

Inflow current shown in table is measured after 30 minutes application of rated working voltage. In actual use, this current will decrease to several µA level after approximately 10 hours application of rated working voltage

Gold Capacitor Series F





Features

- IC memory back-up device (µA range load)
- Industrial grade (max. temperature: +85°C)



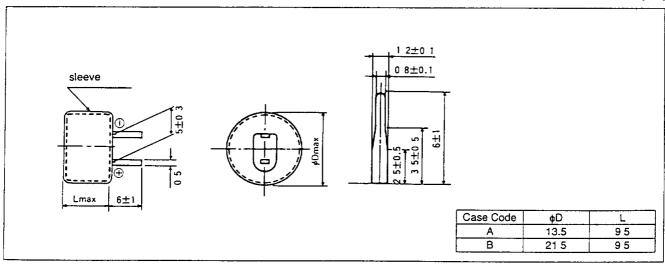


Specifications

ltem		Performance	Characteristics		
Operating Temperature Range	-25 to +85°C	-25 to +85°C			
Rated Working Voltage	5 5V DC				
Nominal Capacitance Range	0 033F to 0 68F (+:	20°C)			
Capacitance Tolerance	20% to +80%	· · · · · · · · · · · · · · · · · · ·			
Inflow Current	Refer to "Standard	products table" for each v	alue		
Internal Resistance	Refer to "Standard products table" for each value				
Characteristics at High and Low	-25°C & +85°C	Capacitance change	≤ ±30% of the measured value at +20°C		
	-25°C	Internal resistance	≤ 5 times of the measured value at +20°C		
Temperature	+85°C	Inflow current	≤ 4 times of the measured value at +20°C		
High Temperature Loading	The capacitor shall +85°C Capacitance cha Internal resistance Inflow current	nge - ≤±30% of the e ≤4 times of the	after 1,000 hours application of 5 5V DC at initial measured value e initial specified value e initial specified value e initial specified value		
Shelf Life	The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hours exposure at +85°C with no voltage applied				
Loading with Moisture	The capacitor shall meet the limits specified for "High Temperature Loading" after 500 hours exposure at +55°C/90 to 95% RH with 5 5V DC applied				

Dimensions

[mm]



Rated working voltage [V DC]	Nominal capacitance [F]	Case code	Part number	Inflow current* [μΑ]	internal resistance [Ω] at 1kHz
	0 033	A	EECF5R5H333	60	150
	0.047	Α	EECF5R5H473	70	120
5 5	0 1	Α	EECF5R5H104	100	100
	0 47	В	EECF5R5H474	215	75
	0 68	В	EECF5R5H684	315	50

Inflow current shown in table is measured after 30 minutes application of rated working voltage. In actual use, this current will decrease to several µA level after approximately 10 hours application of rated working voltage.

Gold Capacitor Series E

Features

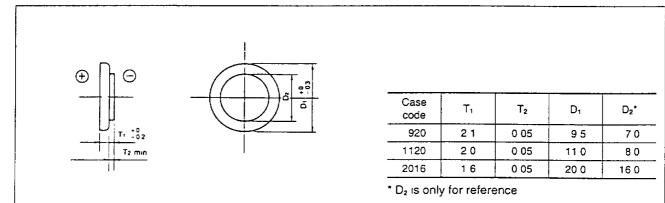
- Energy Storage Device for Solar Watch Applications
- Suitable for µA Range Load
- Coin Type



Specifications

Item	i	Performance Characteristics					
Operating Temperature Range	-25°C to +70°C	-25°C to +70°C					
Rated Working Voltage	2 4V DC						
Nominal Capacitance Range	0 33F to 0 68F (+2	0°C)					
Capacitance Tolerance	-20% to +80%						
Inflwo Current	(Refer to "Standar	products table" for each v	alue)				
Internal Resistance	(Refer to "Standard products table" for each value)						
Characteristics at High and Low Temperature	-25°C & +70°C -25°C +70°C	Capacitance change Internal resistance Inflow current	≤±30% of the measured value at +20°C ≤ 4 times of the measured value at +20°C ≤ 3 times of the measured value at +20°C				
High Temperature Loading	The capacitor shall meet the following limits after a 1,000 hour application of 2 4V DC at +70°C Capacitance change ≤ ±30% of the initial measured value Internal resistance ≤ 4 times of the initial specified value Inflow current ≤ 2 times of the initial specified value						
Shelf Life	The capacitor shall meet the limits for "High Temperature Loading" after a 1,000 hour exposure to +70°C with no voltage applied						
Loading with Moisture		I meet the limits specified fo /90 to 95% RH with 2 4V Di	or "High Temperature Loading" after a 500 hour C applied				

Dimensions [mm]



Rated Working Voltage [V dc]	Norminal Capacitance [F]	Case Code	Part Number	Inflow Current* [μΑ]	Internal Resistance (1kHz) [Ω]
	0 33	920	EECW2R4E334	120	40
2 4	0 47	1120	EECW2R4E474	160	40
	0 68	2016	EECW2R4E684	150	10

Inflow current shown in table is measured after a 30 minute application of rated working voltage. In actual use, this current will decrease to several µA level after approximately 10 hours application of rated working voltage.

Gold Capacitor Series EL







Features

- IC memory back-up device (µA range load)
- Coin type with various terminal style
- Suitable for application in limitted space

Specifications

ltem		Performance	Characteristics					
Operating Temperature Range	-25 to +70°C							
Rated Working Voltage	2 5V DC	2 5V DC						
Nominal Capacitance Range	0 33 to 2 0F							
Capacitance Tolerance	20% to +80%							
Inflow Current	Refer to "Standard	products table" for each v	alue					
Internal Resistance	Refer to "Standard	Refer to "Standard products table" for each value						
	-25°C & +70°C	Capacitance change	≤±30% of the measured value at +20°C					
Characteristics at High and Low Temperature	-25°C	Internal resistance	≤ 5 times of the measured value at +20°C					
remperature	+70°C	Inflow current	≤ 4 times of the measured value at +20°C					
High Temperature Loading	The capacitor shall +70°C Capacitance cha Internal resistance Inflow current	nge ≤±30% of the e ≤4 times of the	after 1,000 hours application of 2 5V DC at initial measured value e initial specified value e initial specified value					
Shelf Life	•	The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hours exposure at +70°C with no voltage applied						
Loading with Moisture		The capacitor shall meet the limits specified for "High Temperature Loading" after 500 hours exposure at +55°C/90 to 95% RH with 2 5V DC applied						

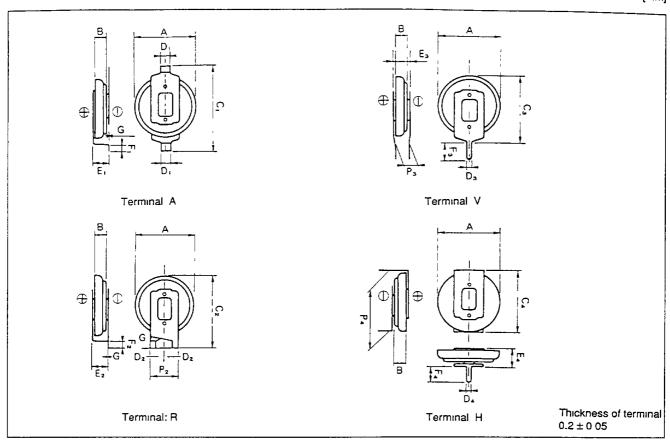
Rated working voltage [V.DC]	Nominal capacitance [F]	Part number*	inflow current** [μΑ]	Internal resistance [Ω] at 1kHz
	0.33	EECE0EL334 []	120	40
2 5	0.47	EECE0EL474 🗆	160	40
	0 68	EECE0EL684 🗆	150	10
	20	EECE0EL205 🗆	230	15

Terminal configurations A/R V/H

Inflow current shown in table is measured after 30 minutes application of rated working voltage. In actual use, this current will decrease to several μA level after approximately 10 hours application of rated working voltage.

Dimensions

[mm]



Terminal A

Part No	А±8з	B ±82	C ₁ ±0 5	D ₁ ±0 1	Et max	F ₁ ±0 2	G max
EECE0EL334A	9.5	21	15.5	2.0	2.9	2.0	0.5
EECE0EL474A	11 0	20	170	20	28	2.0	0.5
EECE0EL684A	20 0	16	26 0	20	25	20	0.5
EECE0EL205A	18.5	22	24.5	20	30	2.0	0.5

Terminal: R

Part No	A ±83	B ±8 2	C ₂ max	D _{z±} 0.1	E₂ max.	F _{2±} 0 2	G max.	P ₂ ±0 5
EECE0EL334R	95	21	13.5	15	29	20	0.5	4 5
EECE0EL474R	11 0	20	15 0	15	2.8	20	0.5	5 5
EECE0EL684R	20 0	1 6	24 0	1 5	2.5	20	0.5	5 5
EECE0EL205R	185	2.2	22.5	15	3.0	20	0.5	5 5

Terminal V

Part No	A +0 3	B ±0 ₂	C ₃ max	D _{3±} 0 1	E ₃ max.	F ₃ (+)±0 3	F ₃ (–)±0 3	P₃±0.5
EECE0EL334V	9 5	2.1	12.0	0.8	2.9	50	40	3 0
EECE0EL474V	11.0	2.0	130	0.8	28	50	4 0	3 0
EECE0EL684V	20 0	16	22 0	0.8	25	50	4.0	3 0
EECE0EL205V	185	22	20 5	0.8	30	50	4.0	30

Terminal. H

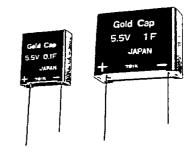
Part No	A ±83	B +0 2	C4±0 5	D₄±0.1	E ₄ max.	F₄±0 3	G max	P₄±0.5
EECE0EL334H	95	21	105	0.8	40	5 0	0.5	100
EECE0EL474H	11 0	20	12.0	0.8	39	50	0.5	100
EECE0EL684H	20 0	16	21 0	0.8	35	5 0	0.5	20 0
EECE0EL205H	185	22	19 5	0.8	4 1	5.0	0.5	20 0

Gold Capacitor Series D

Features

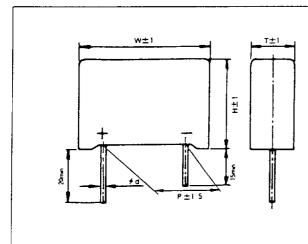
- Back-up for mA range load
- Large capacitance (3.3F)
- Molded case

Specifications



Item		Performance	Characteristics				
Operating Temperature Range	-25 to +70°C	-25 to +70°C					
Rated Working Voltage	5 5V DC						
Nominal Capacitance Range	0.1F to 3 3F (+20°C)					
Capacitance Tolerance	-20% to +80% (0 1	F, 0 33F), -20% to +40%	(1F, 3 3F)				
Inflow Current	Refer to "Standard	products table" for each va	alue				
Internal Resistance	Refer to "Standard	products table" for each va	alue				
	-25°C & +70°C	Capacitance change	≤ ±30% of the measured value at +20°C				
Characteristics at High and Low Temperature	-25°C	Internal resistance	≤ 3 times of the measured value at +20°C				
	+70°C	Inflow current	≤ 3 times of the measured value at +20°C				
High Temperature Loading	The capacitor shall +70°C Capacitance chall internal resistance inflow current	nge . ≤±30% of the : e : ≤2 times of the	fter 1,000 hours application of 5 5V DC at nitial measured value a initial specified value a initial specified value				
Shelf Life	The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hours exposure at +70°C with no voltage applied.						
Loading with Moisture			The capacitor shall meet the limits specified for "High Temperature Loading" after 500 hours exposure at +55°C/90 to 95% RH with 5 5V DC applied.				

Dimensions [mm]



Case	Dimensions							
code	W	T	Н	P	∳ď			
Α	25	9	28	175	07			
8	29	10	31 5	22.5	0.7			
С	42.5	15	32 5	32 5	0.8			
D	42.5	15	425	32 5	0.8			

Rated working voltage [V DC]	Nominal capacitance [F]	Case code	Part number	Inflow current* [mA]	Internal resistance [Ω] at 1kHz
	0 1	Α	EECW5R5D104	0 12	90
5.5	0 33	В	EECW5R5D334	0 18	5 0
33	1	С	EECW5R5D105	0 28	5.0
	33	D	EECW5R5D335	0.44	25

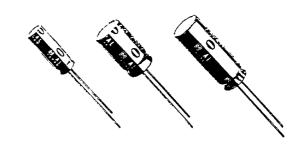
The inflow current shown in the above table is measured after 60 minutes application of rated working voltage. In actual use, this current will decrease to several µA level after approximately 10 hours application of rated working voltage.

Gold Capacitor Series NA/AL

Features

- Back-up for mA to A range load
- Large capacitance (10F)
- Miniaturized size (NA)

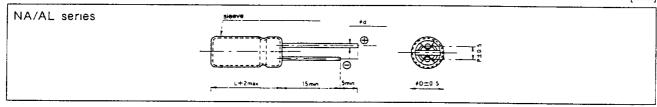
Specifications



Item		Performance C	Characteristics						
Operating Temperature Range	-10 to +70°C (NA) -4	40 to +70°C (AL)							
Rated Working Voltage	2 3 V DC (NA) 2 5 V D	2 3V DC (NA) 2 5V DC (AL)							
Nominal Capacitance Range	0 22F to 10F (+20°C)	0 22F to 10F (+20°C)							
Capacitance Tolerance	-20% to +40% (NA) -	-20% to +80% (AL)							
Inflow Current	Refer to "Standard pro-	ducts table" for each value							
Internal Resistance	Refer to "Standard pro	ducts table" for each value							
Characteristics at High and Low Temperature	-25°C & +70°C	Capacitance change	≤ ±30% of the measured value at +20°C						
	-10°C -40°C (AL)	Internal resistance	≤ 3 times of the measured value at +20°C						
•	+70°C	Inflow current	≤3 times of the measured value at +20°C						
High Temperature Loading	The capacitor shall me DC (AL) at +70°C Capacitance change Internal resistance Inflow current	≦ ±40% (NA), ±3i ≤ 2 times of the ii	1,000 hour application of 2 3V DC (NA), 2 5V 0% (AL) of the initial measured value initial specified value initial specified value						
Shelf Life		The capacitor shall meet the limits for "High Temperature Loading" after 1,000 hour exposure to +70°C with no voltage applied							
Loading with Moisture		et the limits specified for "H o 95% RH with 2 3V DC (N	igh Temperature Loading" after a 500 hour IA), 2 5V DC (AL) applied						

Dimensions

[mm]



Standard Products Table

NA (2 3V) Series

Rated W V Capacitance [V DC] [F]	_ L		Dimensi	Inflow current	Information			
	Part number	Oف	L	φđ	Р	[mA]	resistance [Ω] at 1kHz	
	1 5	EECA2R3U155	12 5	23	0.8	5.0	0 20	29
	2 2	EECA2R3U225	12 5	23	0.8	50	0 23	2.3
23	3 3	EECA2R3U335	12 5	23	0.8	5.0	0.30	1.9
	4 7	EECA2R3U475	12 5	23	0.8	5.0	0 44	1.7
	6.8	EECA2R3U685	12 5	35	0.8	5.0	0 52	12
	10	EECA2R3U106	12.5	35	0.8	5.0	0 60	11

AL (2 5V) Series

Rated W V {V DC}	Capacitance [F]	Part number	Dimensions [mm]				4.0	Information
			φD	L	ød	Р	Inflow current [mA]	resistance (Ω) at 1kHz
25	0 22	EECA0EL224	6.8	21	0.7	2.5	0 10	2.6
	0 33	EECA0EL334	6.8	21	0.7	2.5	0 12	1 7
	0 47	EECA0EL474	8.0	22	0.7	3.5	0 14	13
	10	EECA0EL105	8.0	22	0.7	3.5	0.18	10
	1.5	EECA0EL155	12 5	23	0.8	50	0 20	0.7
	2 2	EECA0EL225	12 5	23	0.8	5.0	0 23	0.5
	3 3	EECA0EL335	12 5	23	0.8	5.0	0.30	0.3
	4 7	EECA0EL475	12 5	35	0.8	5.0	0.44	02
	6.8	EECA0EL685	160	35	0.8	7.5	0.56	02
	10	EECA0EL106	18 0	35	0.8	7.5	0 60	01

The inflow current shown in the above table is measured after 90 minutes application of rated working voltage. In actual use, the current will decrease to several µA level after approximately 10 hours application of rated working voltage.