



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Surface Mount Type **SP-Cap**

Series : **CY, SY (Guaranteed at 85 °C)**



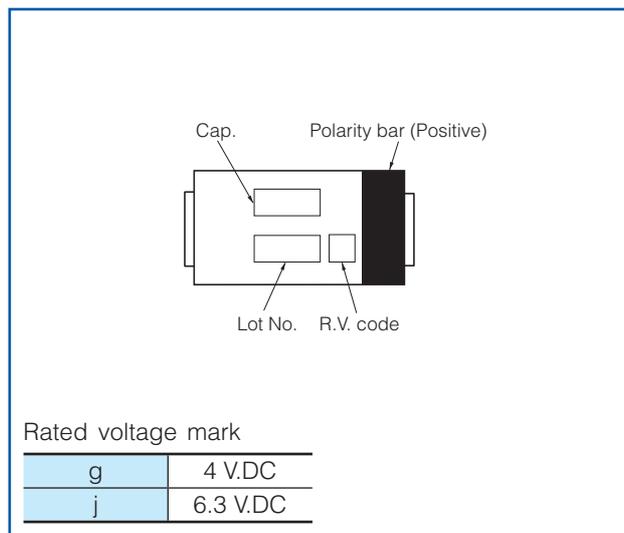
Features

- Endurance 85 °C 2000 h
- Product height (3.0 mm max.)
- High ripple current (5100 mAr.m.s. to 6300 mAr.m.s. max.)
- RoHS compliance, Halogen free

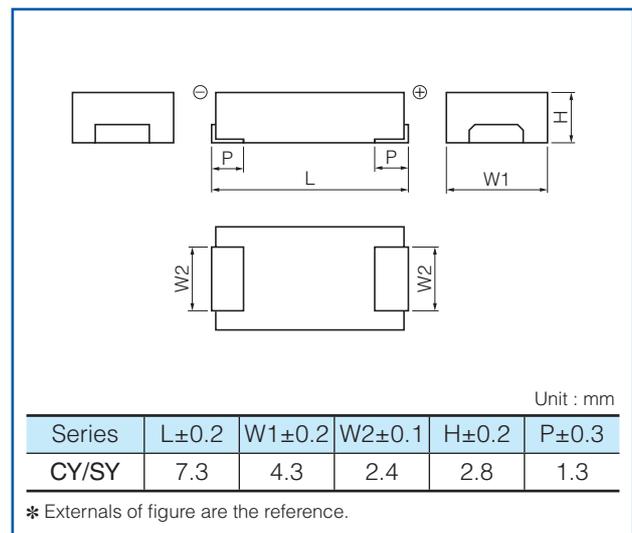
Specifications

Series	CY / SY		
Category temp. range	-55 °C to +85 °C		
Rated voltage range	4 V.DC, 6.3 V.DC		
Nominal cap.range	330 μF to 470 μF		
Capacitance tolerance	±20 % (120 Hz / + 20 °C)		
DC leakage current	$I \leq 0.1 CV (\mu A)$ [4 V.DC, 6.3 V.DC, 2 minutes]		
Dissipation factor (tan δ)	≤ 0.06 (120 Hz / + 20 °C)		
Surge voltage (V.DC)	Rated voltage $\times 1.25$ [4 V.DC, 6.3 V.DC] (15 °C to 35 °C)		
Endurance	+85 °C, 2000 h, rated voltage applied		
	Capacitance change	Within ± 20 % of the initial value	
	tan δ	≤ 2 times of the initial limit	
	DC leakage current	≤ 3 times of the initial limit	
Damp heat (Steady state)	+60 °C, 90 %, 500 h, No-applied voltage		
	Capacitance change of initial measurd value	4 V.DC	6.3 V.DC
		+60 %, -20 %	+50 %, -20 %
	tan δ	≤ 2 times of the initial limit	
DC leakage current	Within the initial limit		

Marking



Dimensions (not to scale)



Characteristics list

								Reflow *3	<Standard>
Series	Rated voltage (V.DC)	Capacitance (±20%) (μF)	Case size (mm)			Specification		Part number	Min.*4 Packaging Q'ty (pcs)
			L	W	H	*1 Ripple current (mA r.m.s.)	*2 ESR (mΩ max.)		
CY	4	470	7.3	4.3	2.8	5100	15	ECGCY0G471R	2000
	6.3	330	7.3	4.3	2.8	5100	15	ECGCY0J331R	2000
SY	4	470	7.3	4.3	2.8	6300	9	ECGSY0G471R	2000
	6.3	330	7.3	4.3	2.8	6300	9	ECGSY0J331R	2000

*1: Ripple current (100 kHz/ +45°C)

*2: ESR (100 kHz/+20 °C)

*3: Please refer to the page of "Mounting Specifications".

*4: Please contact us when 500 pcs packing is necessary.

Temperature compensation multipliers for ripple current

Temp.	$T \leq 45\text{ °C}$	$45\text{ °C} < T \leq 65\text{ °C}$	$65\text{ °C} < T \leq 85\text{ °C}$
Coefficient	1.0	0.7	0.25