

Surface Mount Type **SP-Cap**

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



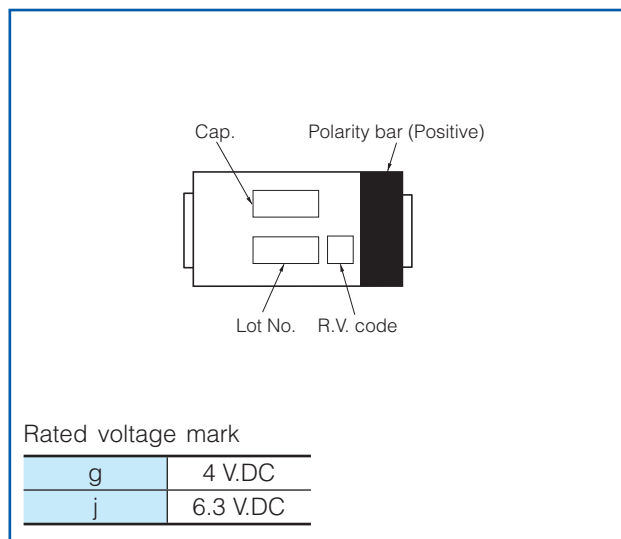
Features

- 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

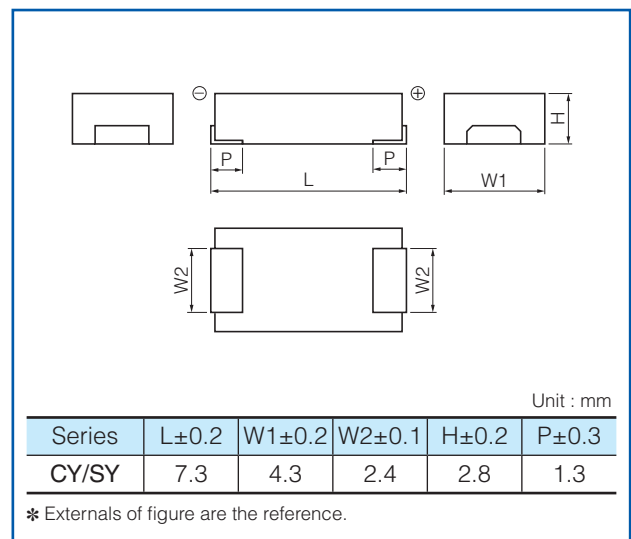
Specifications

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 (mAr.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

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