

Surface Mount Type

CY,SY series

[Guaranteed at 85 °C]



SP-Cap

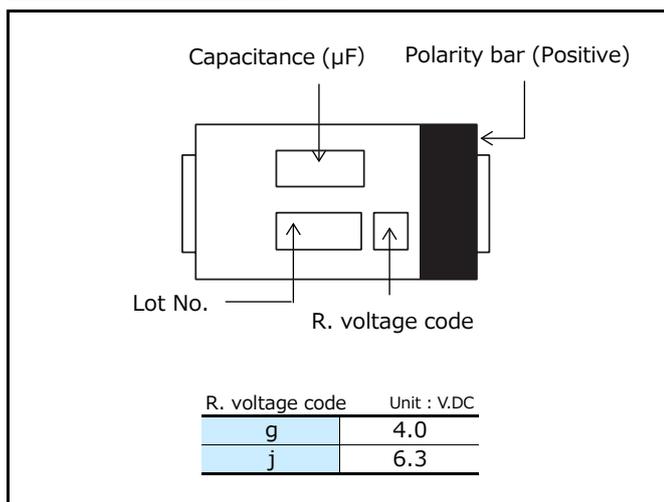
Features

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

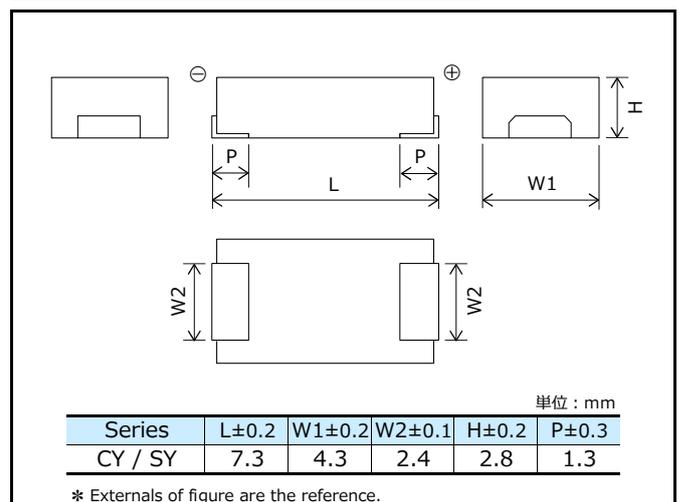
Specifications

Series	CY / SY		
Category temp. range	-55 °C to +85 °C		
Rated voltage range	4.0 V.DC, 6.3V.DC		
Nominal cap. range	330 μF to 470 μF		
Capacitance tolerance	±20 % (120 Hz / +20 °C)		
DC leakage current	$I \leq 0.1 CV$ (μA) 2 minutes		
Dissipation factor (tan δ)	≤ 0.06 (120 Hz / + 20 °C)		
Surge voltage (V.DC)	Rated voltage × 1.25 (15 °C to 35 °C)		
Endurance	+85 °C ± 2 °C, 2000 h, rated voltage applied		
	Capacitance change	Within ±20 % of the initial value	
	Dissipation factor (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	4.0 V.DC	6.3 V.DC
		+60 %, -20 %	+50 %, -20 %
	Dissipation factor (tan δ)	≤ 2 times of the initial limit	
DC leakage current	Within the initial limit		

Marking



Dimensions (not to scale)



Characteristics list

Series	Rated voltage (V.DC)	Capacitance (μF)	Case size (mm)			Specification		Part number	Min. Packaging Q'ty ^{*3} (pcs)
			L	W	H	Ripple current ^{*1} (mA r.m.s.)	ESR ^{*2} (mΩ max.)		
CY	4.0	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	4.0	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 contact us when 500 pcs packing is necessary.

◆ Please refer to each page in this catalog for "Reflow conditions" and "Taping specifications".

Temperature coefficient of ripple current

Temperature		T ≤ 45 °C	45 °C < T ≤ 65 °C	65 °C < T ≤ 85 °C
4.0 V.DC to 6.3 V.DC	Coefficient	1.0	0.7	0.25

◆ Ripple current should be controlled so that surface temperature of capacitor does not exceed the category temperature.

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