

## Surface Mount Type

# SP-Cap

Series: **MC**

**Old series**



### ■ Features

- Achieved 40 % miniaturization on together with low ESR of SP-Cap for further design flexibility.
- RoHS directive compliant

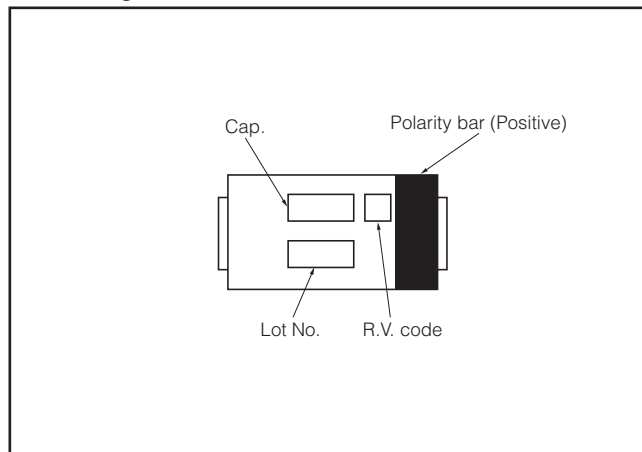
#### [Our Requests]

Since this series is old, we don't recommend you to adopt it

### ■ Specifications

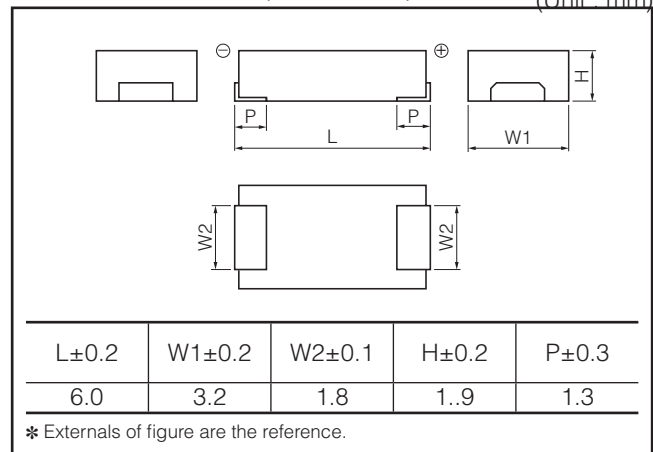
Category Temp. Range	-40 °C to +105 °C			
Rated Voltage Range	2 V.DC to 6.3 V.DC			
Nominal Cap.Range	47 μF to 120 μF			
Capacitance Tolerance	±20 % (120 Hz/+20 °C)			
DC Leakage Current	I ≤ 0.1 CV (μA) 2 minutes			
tan δ	≤ 0.06 (120 Hz/+20 °C)			
Surge Voltage	Rated Voltage × 1.25 (15 °C to 35 °C)			
Endurance	After applying rated voltage for 1000 hours at 105 °C±2 °C and then being atabilized at +20 °C, Capacitor shall			
	Capacitance change	±10% of initial measured value		
	tan δ	≤ Initial specified value		
	DC leakage current	≤ Initial specified value		
Moisture resistance	After storing for 500 hours at 60 °C, 90 %			
	Capacitance change of initial measurd value	2, 2.5 V.DC	4 V.DC	6.3 V.DC
		+70, -20 %	+60, -20 %	+50, -20 %
	tan δ	≤ 200 % of initial specified value		
	DC leakage current	≤ Initial specified value		

### ■ Marking



### ■ Dimensions in mm(not to scale)

(Unit : mm)



### ■ Standard Products

Reflow \*3

<260 °C>

Series & Size Code	Rated Voltage (V.DC)	Capacitance (±20 %) (μF)	Case Size			Specification		Part number	Min. Packaging Q'ty (pcs)
			L (mm)	W (mm)	H (mm)	Ripple current *1 (Ar.m.s.)	ESR *2 (mΩ max.)		
MC	2	120	6.0	3.2	1.9	2.7	12	EEFMC0D121R	3000
	2.5	100	6.0	3.2	1.9	2.7	12	EEFMC0E101R	3000
	4	82	6.0	3.2	1.9	2.2	18	EEFMC0G820R	3000
	6.3	47	6.0	3.2	1.9	2.2	18	EEFMC0J470R	3000

\*1: Ripple current (100 kHz/ +20 to +105 °C ), \*2: ESR (100 kHz/+20 °C)

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

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use. Should a safety concern arise regarding this product, please be sure to contact us immediately.

02 Mar. 2015