

Surface Mount Type

SP-Cap

Series: **G**



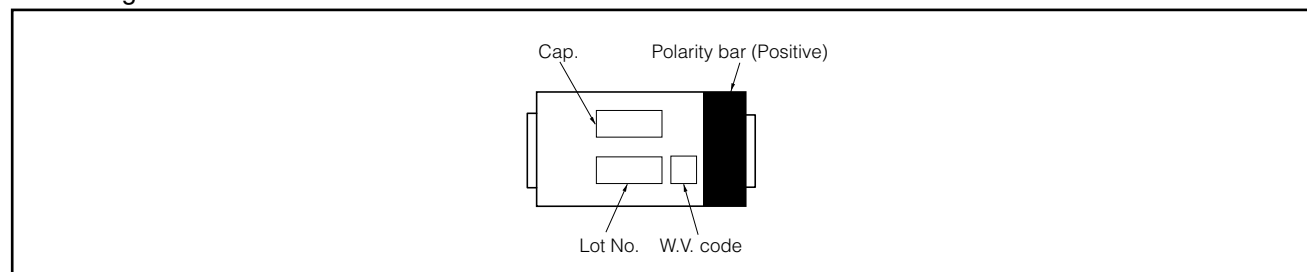
■ Features

- Super Low-ESR (3 mΩ)
- High temperature reflow soldering applicable
(Peak : 260 °C 10s, main heating : 230 °C 40s)
- RoHS directive compliant

■ Specifications

Category Temp. Range	-40 °C to +105 °C	
Rated W.V.Range	2 V.DC to 2.5 V.DC	
Nominal Cap.Range	330 μF to 560 μF	
Capacitance Tolerance	±20 % (120 Hz/+20 °C)	
DC Leakage Current	$I \leq 0.1 \text{ CV } (\mu\text{A})$ 2 minutes	
$\tan \delta$	≤ 0.06 (120 Hz/+20 °C)	
Surge Voltage	Rated Working Voltage $\times 1.25$ (15 °C to 35 °C)	
Endurance	After applying rated working voltage for 1000 hours at 105 °C±2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.	
	Capacitance change	±10% of initial measured value
	$\tan \delta$	$\leq$ Initial specified value
	DC leakage current	$\leq$ Initial specified value
Moisture resistance	After storing for 500 hours at 60 °C, 90 %	
	Capacitance change of initial measurd value	2 V.DC
		+70, -20 %
	$\tan \delta$	≤ 200 % of initial specified value
	DC leakage current	$\leq$ Initial specified value

■ Marking



■ Dimensions in mm(not to scale)

(Unit : mm)

(Unit : mm)

2 terminals				
$L \pm 0.2$	$W1 \pm 0.2$	$W2 \pm 0.1$	$H \pm 0.2$	$P \pm 0.3$
7.3	4.3	2.4	1.9	1.3
* Externals of figure are the reference.				

3 terminals							
$L \pm 0.2$	$W1 \pm 0.2$	$W2 \pm 0.1$	$H \pm 0.2$	$P1 \pm 0.3$	$P2 \pm 0.1$	$P3 \pm 0.2$	$P4 \pm 0.2$
7.3	4.3	2.4	1.9	1.3	1.1	0.7	1.4
* Externals of figure are the reference.							

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.

01 Oct. 2013

■ Standard Products

Series & Size Code	Rated W.V. (V.DC)	Capaci- tance (±20 %) (μF)	Case Size			Specification		Part number	The number of terminals		Min. Packaging Q'ty (pcs)
			L (mm)	W (mm)	H (mm)	*1 Ripple current (Ar.m.s.)	*2 ESR (Ω max.)	*3 Reflow condition : 260 °C [Proposal]			
						2	3				
GX	2	330	7.3	4.3	1.9	4.0	0.003	EEFGX0D331R	○		3500
		470	7.3	4.3	1.9	4.0	0.003	EEFGX0D471R	○		3500
		470	7.3	4.3	1.9	4.0	0.003	EEFGX0D471L		○	3500
		560	7.3	4.3	1.9	4.0	0.003	EEFGX0D561R	○		3500
		560	7.3	4.3	1.9	4.0	0.003	EEFGX0D561L		○	3500
	2.5	470	7.3	4.3	1.9	4.0	0.003	EEFGX0E471R	○		3500
		470	7.3	4.3	1.9	4.0	0.003	EEFGX0E471L		○	3500

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

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