

Surface Mount Type

SP-Cap

Series: **GX** (Super Low ESR Products)



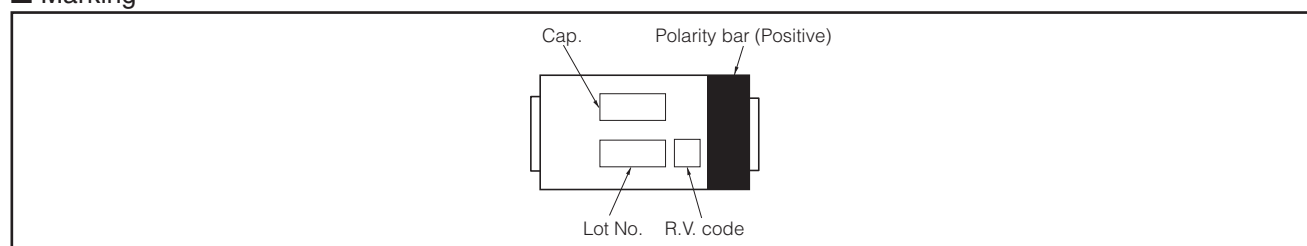
■ Features

- Large capacitance (560 μF max.)
- Super Low ESR (3 $\text{m}\Omega$)
- Low ESL (3-terminals : 50 % less than 2-terminals) [Suffix : L]
- RoHS directive compliant

■ Specifications

Series & Size Code	GX	
Category Temp. Range	-55 °C to +105 °C	
Rated Voltage Range	2 V.DC to 2.5 V.DC	
Nominal Cap.Range	330 μF to 560 μF	
Capacitance Tolerance	$\pm 20\%$ (120 Hz/+20 °C)	
DC Leakage Current	$I \leq 0.1 \text{ CV}$ (μA) 2 minutes	
$\tan \delta$	≤ 0.06 (120 Hz/+20 °C)	
Surge Voltage	Rated Voltage $\times 1.25$ (15 °C to 35 °C)	
Endurance	After applying rated voltage for 2000 hours at 105 °C ± 2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.	
	Capacitance change	$\pm 20\%$ of initial measured value
	$\tan \delta$	$\leq 200\%$ of initial specified value
	DC leakage current	$\leq 300\%$ of initial specified value
Moisture resistance	After storing for 500 hours at 60 °C, 90 %	
	Capacitance change of initial measured value	2 V.DC to 2.5 V.DC
		+70, -20 %
	$\tan \delta$	$\leq 200\%$ of initial specified value
	DC leakage current	$\leq$ Initial specified value

■ Marking



■ Dimensions in mm(not to scale)

(Unit : mm)

(Unit : mm)

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

3 terminals							
$L \pm 0.2$	$W1 \pm 0.2$	$W2 \pm 0.1$	$H \pm 0.1$	$P1 \pm 0.3$	$P2 \pm 0.1$	$P3 \pm 0.2$	$P4 \pm 0.2$
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.

04 Mar. 2015

■ Standard Products

Reflow *3

<Standard>

Series & Size Code	Rated Voltage (V.DC)	Capaci- tance (±20 %) (μF)	Case Size			Specification		The number of terminals		Part number	*4 Min. Packaging Q'ty (pcs)
			L (mm)	W (mm)	H (mm)	*1 Ripple current (Ar.m.s.)	*2 ESR (mΩ max.)				
GX	2	330	7.3	4.3	1.9	10.2	3	○		EEFGX0D331R	3500
		470	7.3	4.3	1.9	10.2	3	○		EEFGX0D471R	3500
			7.3	4.3	1.9	10.2	3		○	EEFGX0D471L	3500
		560	7.3	4.3	1.9	10.2	3	○		EEFGX0D561R	3500
			7.3	4.3	1.9	10.2	3		○	EEFGX0D561L	3500
	2.5	470	7.3	4.3	1.9	10.2	3	○		EEFGX0E471R	3500
			7.3	4.3	1.9	10.2	3		○	EEFGX0E471L	3500

*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

T ≤ 45 °C	45 °C < T ≤ 85 °C	85 °C < T ≤ 105 °C
1.0	0.7	0.25

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[EEF-GX0D331R](#)