

Surface Mount Type

SP-Cap

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



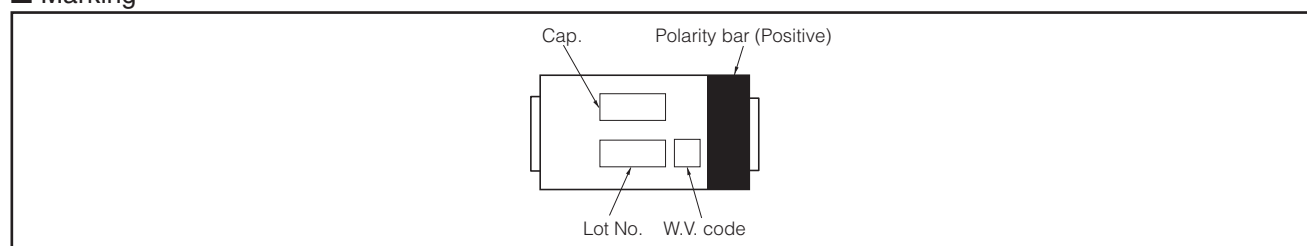
■ Features

- Large capacitance (560 μ F max.)
- Super Low ESR (3 m Ω)
- Low ESL (50 % less than 3-terminals) [Suffix : L]
- RoHS directive compliant

■ Specifications

Series & Size Code	GX	
Category Temp. Range	-40 °C to +105 °C	
Rated W.V.Range	2 V.DC to 2.5 V.DC	
Nominal Cap.Range	330 μ F to 560 μ F	
Capacitance Tolerance	± 20 % (120 Hz/+20 °C)	
DC Leakage Current	$I \leq 0.1$ CV (μ 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 2000 hours at 105 °C ± 2 °C, and then being stabilized at +20 °C, capacitor shall meet the following limits.	
	Capacitance change	± 20 % of initial measured value
	$\tan \delta$	≤ 200 % of initial specified value
	DC leakage current	≤ 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
		+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 ± 0.2	W1 ± 0.2	W2 ± 0.1	H ± 0.2	P ± 0.3
7.3	4.3	2.4	1.9	1.3
* Externals of figure are the reference.				

3 terminals							
L ± 0.2	W1 ± 0.2	W2 ± 0.1	H ± 0.2	P1 ± 0.3	P2 ± 0.1	P3 ± 0.2	P4 ± 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.

02 Aug. 2014

■ Standard Products

Series & Size Code	Rated W.V. (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 (Ω max.)			*3 Reflow condition : 260 °C	
						2	3				
GX	2	330	7.3	4.3	1.9	10.2	0.003	○		EEFGX0D331R	3500
		470	7.3	4.3	1.9	10.2	0.003	○		EEFGX0D471R	3500
			7.3	4.3	1.9	10.2	0.003		○	EEFGX0D471L	3500
		560	7.3	4.3	1.9	10.2	0.003	○		EEFGX0D561R	3500
			7.3	4.3	1.9	10.2	0.003		○	EEFGX0D561L	3500
	2.5	470	7.3	4.3	1.9	10.2	0.003	○		EEFGX0E471R	3500
			7.3	4.3	1.9	10.2	0.003		○	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		
≤ 45 °C	45 °C < T ≤ 85 °C	85 °C < T ≤ 105 °C
1.0	0.7	0.25