Surface Mount Type

Series: **ZS** Type: **V**





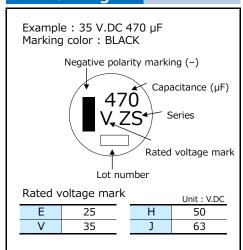
High temperature lead-free reflow

Features

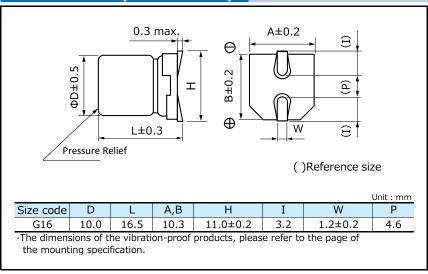
- High ripple current and Large capacitance compared with ZC series
- Endurance: 4000 h at 125 ℃
- Equivalent to conductive polymer type Aluminum Electrolytic Capacitor (There are little characteristics change by temperature and frequency)
- Vibration-proof product is available upon request.
- AEC-Q200 compliant
- RoHS compliant

Specifications							
Size code	G16						
Category temp. range	-55 ℃ to +125 ℃						
Rated voltage range	25 V.DC to 63 V.DC						
Nominal cap.range	150 μF to 560 μF						
Capacitance tolerance	±20 % (120 Hz / +20 ℃)						
DC leakage current	I ≤ 0.01	$I \le 0.01$ CV or 3 (μ A) After 2 minutes (whichever is greater)					
Dissipation factor (tan δ)	Please see the attached characteristics list						
	$+125~\text{C}\pm2~\text{C}$, 4000 h, apply the rated ripple current without exceeding the rated voltage.						
Endurance	Capacitance change Within ±30% of the initial value						
	Dissipation factor (tan δ)	≤ 200 % of the initial limit					
	E.S.R.	≤ 200 % of the initial limit					
	DC leakage current	Within the initial limit					
	ESR after endurance	Size code					
	(Ω / 100 kHz)(-40 °C)	G16					
	, ,	0.3					
	After storage for 1000 hours at +125 $C\pm2$ C with no voltage applied and then being						
Shelf life	stabilized at +20℃, capacitors shall meet the limits specified in endurance.						
	(With voltage treatment)						
Damp heat (Load)	+85 ℃±2 ℃, 85 % to 90 %, 2000 h, rated voltage applied.						
	Capacitance change Within ±30% of the initial value						
		≤ 200 % of the initial limit					
	E.S.R.	≤ 200 % of the initial limit					
	DC leakage current	Within the initial limit					
Resistance to soldering heat	After reflow soldering and then being stabilized at $+20^{\circ}$ C, capacitors shall meet the						
	following limits.						
	Capacitance change	Within ±10% of the initial value					
	Dissipation factor (tan δ) Within the initial limit						
	DC leakage current	Within the initial limit					

Marking



Dimensions (not to scale)



anasonic Conductive Polymer Hybrid Aluminum Electrolytic Capacitors

Characteristics list

Endurance : 125 ℃ 4000 h

Rated volt. (V.DC)	Capaci- tance (±20 %) (µF)	Case size (mm)			Specification			Part number		Min. packaging
		φD	L	Size code	Ripple current *1 (mA r.m.s.)	ESR ^{*2} (mΩ)	tan δ ^{*3}	Standard product	Vibration-proof product	q'ty Taping (pcs)
25	560	10.0	16.5	G16	4000	11	0.14	EEHZS1E561P	EEHZS1E561V	250
35	470	10.0	16.5	G16	4000	11	0.12	EEHZS1V471P	EEHZS1V471V	250
50	220	10.0	16.5	G16	3700	13	0.10	EEHZS1H221P	EEHZS1H221V	250
63	150	10.0	16.5	G16	3500	15	0.08	EEHZS1J151P	EEHZS1J151V	250

^{*1:} Ripple current (100 kHz / +125 ℃)

[•]The dimensions of the vibration-proof products, please refer to the page of the mounting specification.

Frequency correction factor for ripple current								
Rated capacitance (C)	Frequency (f)	100 Hz ≤ f< 200 Hz	200 Hz ≤ f< 300 Hz	300 Hz ≤ f< 500 Hz	500 Hz ≤ f< 1 kHz			
100 μF ≦ C < 150 μF	Correction	0.15	0.20	0.25	0.30			
150 µF ≦ C	factor	0.15	0.25	0.25	0.30			
•								
Rated capacitance (C)	Frequency (f)	1 kHz ≦ f< 2 kHz	2 kHz ≦ f< 3 kHz	3 kHz ≦ f< 5 kHz	5 kHz ≦ f< 10 kHz			
100 μF ≦ C < 150 μF	Correction	0.40	0.45	0.55	0.60			
150 μF ≦ C	factor	0.45	0.50	0.60	0.65			
Rated capacitance (C)	Frequency (f)	10 kHz ≦ f< 15 kHz	15 kHz ≦ f< 20 kHz	20 kHz ≦ f< 30 kHz	30 kHz ≤ f < 40 kHz			
100 μF ≦ C < 150 μF	Correction	0.70	0.75	0.80	0.80			
150 μF ≦ C	factor	0.75	0.80	0.85	0.85			
	·							
Rated capacitance (C)	Frequency (f)	40 kHz ≦ f < 50 kHz	50 kHz ≤ f< 100 kHz	100 kHz ≦ f< 500 kHz	500 kHz ≦ f			
100 μF ≦ C < 150 μF	Correction	0.85	0.90	1.00	1.00			
150 µF ≦ C	factor	0.85	0.90	1.00	1.00			

^{*2:} ESR (100 kHz / +20 $^{\circ}$ C)

^{*3:} $\tan \delta (120 \text{ Hz} / +20 ^{\circ}\text{C})$

[·] Please refer to the page of "Reflow profile" and "The taping dimensions".



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