## Surface Mount Type

Series: **ZA** Type: **V** 

High temperature Lead-Free reflow



Endurance: 5000 h at 105 °C
Low ESR and High ripple current
RoHS directive compliant







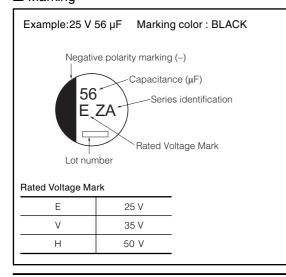
#### ■ Specifications

Category Temp. Range	−55 °C to +105 °C					
Rated W.V.Range	25 V.DC to 50 V.DC					
Nominal Cap.Range	22 μF to 56 μF					
Capacitance Tolerance	±20 % (120 Hz/+20 °C)					
DC Leakage Current	I ≤ 0.05 CV or 1000 (μA) After 2 minutes (whichever is greater)					
tan $\delta$	Please see the attached Standard Products list					
	The capacitor shall be subjected to application of the D.C. voltage with full rated ripple current at +105 °C for 5000 hours. After stabilizing at room temperature(+15 to 35 °C), the capacitor shall not exceed the specified limits.  (The sum of DC voltage and ripple peak voltage shall not exceed the rated voltage.)					
Endurance	Capacitance change	±30 % of initial measured value				
	tan $\delta$	≤ 200 % of initial specified value				
	E. S. R.	≤ 200 % of initial specified value				
	DC leakage current	≤ initial specified value				
Shelf Life	After storage for 1000 hours at +105 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment)					
Resistance to Soldering Heat	After reflow soldering and then being stabilized at +20 °C, capacitors shall meet the following limits.					
	Capacitance change	±10 % of initial measured value				
	tan $\delta$	≤ initial specified value				
	DC leakage current	≤ initial specified value				

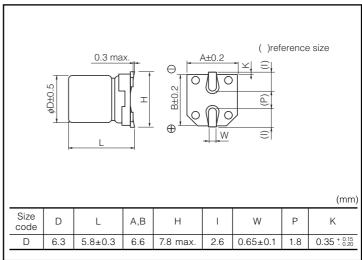
#### ■ Frequency correction factor for ripple current

		Frequer	Frequency (Hz)		
	120	1 k	10 k	100 k to	
Correction factor	0.10	0.30	0.60	1.00	

### ■ Marking



#### ■ Dimensions in mm (not to scale)



# . Panasonic

# Polymer Hybrid type Aluminum Electrolytic Capacitors/ZA

Endurance : 105 °C 5000 h

#### ■ Standard Products

W.V. Cap. (±20 %)		Case size		Specification				Min. Packaging Q'ty		
		Dia.	Length	Size Code	Ripple Current (100 kHz) (+105 °C)	E.S.R. (100 kHz) (+20 °C)	tan $\delta$ (120 Hz) (+20 °C)	Part No. (RoHS:compliant)	Reflow	Taping
(V)	(µF)	(mm)	(mm)		(mA r.m.s.)	$(m\Omega)$				(pcs)
25	56	6.3	5.8	D	1300	80	0.14	EEHZA1E560P	(5)	1000
35	27	6.3	5.8	D	1300	80	0.12	EEHZA1V270P	(5)	1000
	47	6.3	5.8	D	1300	80	0.12	EEHZA1V470P	(5)	1000
50	22	6.3	5.8	D	1100	100	0.10	EEHZA1H220P	(5)	1000

The taping dimensions are explained on EE188 of our Catalog. Please use it as a reference guide. Reflow Profile(Fig-5) listed on EE186 of our Catalog.