# Alchip<sup>™</sup> Series

OLower ESR, 2,000 hours at 105℃

●Rated voltage range : 16 to 35Vdc, Nominal capacitance range : 510 to 1,500µF

Solvent resistant type

Vibration resistant structure

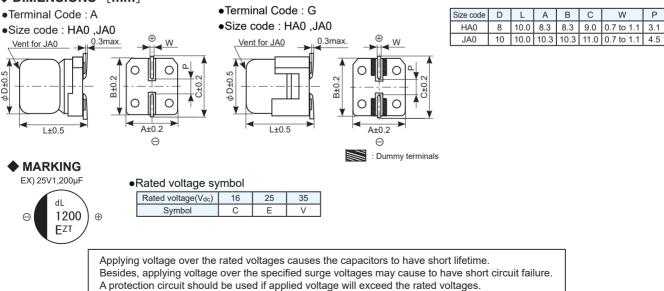
RoHS2 Compliant

●AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information.

### SPECIFICATIONS

Items	Characteristics									
Category Temperature Range	-55 to +105°C									
Rated Voltage Range	16 to 35Vdc									
Capacitance Tolerance	±20% (M) (at 20°C , 120Hz)									
Leakage Current	I=0.01CV or 3µA, whichever is greater.									
-		ge current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)								
Dissipation Factor	Rated voltage (Vdc)	16V	25V	35V						
(tan δ)	tan δ (Max.)	0.16	0.14	0.12						
	When nominal capaci	add 0.02 to the value above for each 1,000µF increase. (at	20°C , 120Hz)							
Low Temperature	Rated voltage (Vdc)	16V	25V	35V						
Characteristics	Z(-25°C)/Z(+20°C)	2	2	2						
(Max. Impedance Ratio)	Z(-40°C)/Z(+20°C)	3	3	3						
	Z(-55°C)/Z(+20°C)	4	3	3		(at 120Hz)				
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after the rated voltage is applied for 2,000 hours at 105°C.									
	Capacitance change	≦ ±30	% of the	initial va	lue					
	D.F. (tan δ )	≦ 200	% of the	initial sp	ecified value					
	Leakage current	≦ The	initial sp	pecified v	alue					
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1,000 hours at 105°C without									
	voltage applied. Before the measurement, the capacitor shall be preconditioned by applying voltage according to Item 4.1 of JIS C 5101-4.									
	Capacitance change	$\leq \pm 30$	% of the	e initial va	lue					
	D.F. (tan δ )	≦ 200	% of the	initial sp	ecified value					
	Leakage current	$\leq$ The	initial sp	pecified v	alue					
Surge Voltage Test		The capacitors shall be subjected to 1,000 cycles each consisting of charging with the specified surge voltage for 30±5 seconds								
	through a protective re	esistor (a	as require	ed for RC	=0.1±0.05sec) and open-circuiting for 5.5 minutes at a room temperature	of 15 to 35°C.				
	Rated voltage (V <sub>dc</sub> )	16V	25V	35V						
	Surge voltage (Vdc)	18V	29V	40V						
	Appearance	No sigi	nificant o	lamage						
	Capacitance change	≦ ±20	% of the	initial va	lue					
	D.F. (tan δ )	≦ 200	% of the	initial sp	ecified value					
	Leakage current	≦ The	initial sp	pecified v	alue					
	(Caution) Surge Voltage Test intends to evaluate capacitors in durability of an exceptional excessive voltage under specific conditions. It does not imply long-term use at all.									

## ♦ DIMENSIONS [mm]



Product specifications in this catalog are subject to change without notice. Request our product specifications before purchase and/or use. Please use our products based on the information contained in this catalog and product specifications

B C

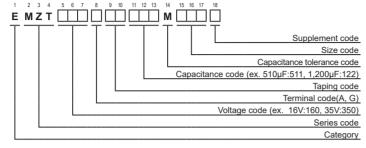
W

8.3 9.0 0.7 to 1.1 3.1

Р



### ◆ PART NUMBERING SYSTEM



#### STANDARD RATINGS

WV (Vdc)	Cap (µF)	Size code	tan $\delta$	ESR (Ωmax./ 20°C ,100kHz)	Rated ripple current (mArms/ 105°C ,100kHz)	Part No.
16	820	HA0	0.16	0.08	850	EMZT160 🗆 RA821MHA0G
	1,500	JA0	0.16	0.06	1,190	EMZT160 🗆 RA152MJA0G
25	680	HA0	0.14	0.08	850	EMZT250 🗆 RA681MHA0G
25	1,200	JA0	0.14	0.06	1,190	EMZT250 🗆 RA122MJA0G
35	510	HA0	0.12	0.08	850	EMZT350 🗆 RA511MHA0G
33	820	JA0	0.12	0.06	1,190	EMZT350 🗆 RA821MJA0G

:Enter the appropriate terminal code

### RATED RIPPLE CURRENT MULTIPLIERS

•Frequency Multipliers

Frequency (Hz)	120	1k	10k	100k
510	0.50	0.85	0.94	1.00
680 ~ 1,500	0.60	0.87	0.95	1.00

The endurance of capacitors is reduced with internal heating produced by ripple current at the rate of halving the lifetime with every 5°C rise. When long life performance is required in actual use, the rms ripple current has to be reduced.