

Alchip™-MZS Series

- Downsizing and Lower ESR, 2,000 hours at 105°C
- Rated voltage range : 25 & 35V, Nominal capacitance range : 330 to 1,000μF
- Solvent resistant type
- Vibration resistant structure
- RoHS2 Compliant
- AEC-Q200 compliant : Please contact Chemi-Con for more details, test data, information



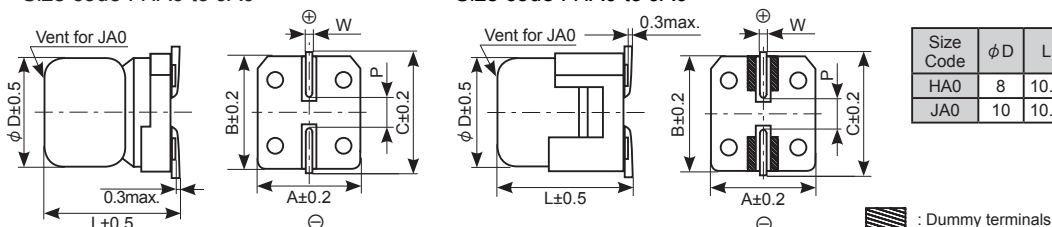
◆ SPECIFICATIONS

Items	Characteristics			
Category	-55 to +105°C			
Temperature Range				
Rated Voltage Range	25 & 35V _{dc}			
Capacitance Tolerance	±20% (M)		(at 20°C , 120Hz)	
Leakage Current	I=0.01CV or 3μA, which is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)			
Dissipation Factor (tan δ)	Rated voltage (V _{dc})	25V	35V	
	tan δ (Max.)	0.14	0.12	
Low Temperature Characteristics (Max. Impedance Ratio)	Rated voltage (V _{dc})	25V	35V	
	Z(-25°C)/Z(+20°C)	2	2	
	Z(-40°C)/Z(+20°C)	3	3	
	Z(-55°C)/Z(+20°C)	3	3	
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 value		
	D.F. (tan δ)	≤ 200% of the initial specified value		
	Leakage current	≤ The initial specified value		
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	≤ ±30% of the initial value		
	D.F. (tan δ)	≤ 200% of the initial specified value		
	Leakage current	≤ The initial specified value		
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 resistor (as required 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 _{dc})	25V	35V	
	Surge voltage (V _{dc})	29V	40V	
	Appearance	No significant damage		
	Capacitance change	≤ ±20% of the initial value		
	D.F. (tan δ)	≤ 200% of the initial specified value		
	Leakage current	≤ The initial specified value		
	(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]

- Terminal Code : A
- Size code : HA0 to JA0

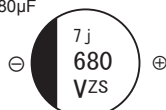
- Terminal Code : G (Vibration resistant structure)
- Size code : HA0 to JA0



Size Code	φD	L	A	B	C	W	P
HA0	8	10.0	8.3	8.3	9.0	0.7 to 1.1	3.1
JA0	10	10.0	10.3	10.3	11.0	0.7 to 1.1	4.5

◆ MARKING

EX) 35V680μF



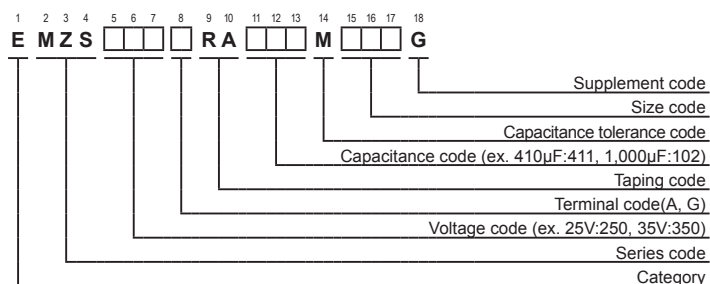
- Rated voltage symbol

Rated voltage (V _{dc})	25	35
Symbol	E	V

Applying voltage over the rated voltages causes the capacitors to have short lifetime.
Besides, applying voltage over the specified surge voltages may cause to have short circuit failure.
A protection circuit should be used if applied voltage will exceed the rated voltages.

Alchip™-M^ZS Series

◆ PART NUMBERING SYSTEM



◆ STANDARD RATINGS

WV (Vdc)	Cap (μF)	Size code	tan δ	ESR (Ω max. /20°C, 100kHz)	Rated ripple current (mA rms/105°C, 100kHz)	Part No.
25	470	HA0	0.14	0.08	850	EMZS250□RA471MHA0G
	560	HA0	0.14	0.08	850	EMZS250□RA561MHA0G
	820	JA0	0.14	0.06	1,190	EMZS250□RA821MJA0G
	1,000	JA0	0.14	0.06	1,190	EMZS250□RA102MJA0G
35	330	HA0	0.12	0.08	850	EMZS350□RA331MHA0G
	410	HA0	0.12	0.08	850	EMZS350□RA411MHA0G
	470	HA0	0.12	0.08	850	EMZS350□RA471MHA0G
	560	JA0	0.12	0.06	1,190	EMZS350□RA561MJA0G
	680	JA0	0.12	0.06	1,190	EMZS350□RA681MJA0G

□ :Enter the appropriate terminal code.

◆ RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Capacitance (μF)	Frequency (Hz)			
	120	1k	10k	100k
330 to 560	0.50	0.85	0.94	1.00
680 to 1,000	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.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[United Chemi-Con \(UCC\):](#)

[EMZS250ARA821MJA0G](#) [EMZS350ARA411MHA0G](#) [EMZS350ARA561MJA0G](#) [EMZS250ARA471MHA0G](#)
[EMZS350ARA471MHA0G](#) [EMZS250ARA102MJA0G](#) [EMZS250ARA561MHA0G](#) [EMZS350ARA681MJA0G](#)
[EMZS350ARA331MHA0G](#)

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9