# Electric double layer capacitors

# **SPECIFICATION SHEET**

Customer Part No.		
Rubycon Part No.	2.7 DMC 1 M MY4 8X16	Long lead
Drawing No.	REE-0A0204	Issue No. 1
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## RUBYCON CORPORATION

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#### 7. Electrical Performance

#### Table-1

Rated Voltage(V)	Nominal Capacitance(F)	Capacitance Tolerance(%)	Size : D×L(mm)	AC internal resistance (ESR) (ΩMAX) at 1kHz 20°C
2.75	1	$-20 \sim +20$	8×16	0.5

### Table-2 PERFORMANCE

1	Temperature Characteristic	< Condition >				
		Step	Test temperature	(°C)	Time	
		1	20±2	( - /	Time to reach thermal equilibrium	
		2	-40±3		//	
		3	70±2		//	
		Critoria				
		< Chiena >	Electrostatio conc	oitu /	Value for comparison is used	
		Step1 Ele Step2 Car AC	Canacitance chan		Within +30% of the value of step 1	
				rige (ESR) Six times or less the standard value		
			Canacitance chan	Within +30% of the value of sten 1		
		Step3	AC internal resistance	e (ESR)	Below the standard value	
					Bolon the standard value.	
		Conditions   Capacitor under the test shall be applied the rated voltage continuously at 70±2°C for 1000 <sup>+48</sup> / <sub>0</sub> hours. After the test and returned in standard condition for 16 hours or more, and the capacitor shall meet following requirements.   < Criteria >   Capacitance change Within ±30% of the initial value.   AC internal resistance (ESR) Three times or less the standard value.   Appearance There is no damage on apearance, and is no leakage of electrobath.				
3	Storage at high temperature	<condition> Capacitors shall be stored at 70±2°C with no voltage applied for 1000 <sup>+48</sup>/<sub>0</sub> hours. After the test and returned in standard condition for 16 hours or more, and the capacitor shall meet following requirements. &lt; Criteria &gt; Capacitance change Within ±30% of the initial value. AC internal resistance (ESR) Three times or less the standard value. Appearance There is no damage on apearance, and is no leakage of electrobath.</condition>				

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#### 8. Caution for use (1) Polarity The electric double layer capacitor has polarity. Please use after confirming the polarity. (2)External stress Please do not apply external strong force on the main body, lead wire and the terminal. (3) Resistance to solder When soldering the electric double layer capacitor with the printed circuit board under very high temperature and for a long period of time, the second coated sleeve may shrunk so much and thus may caused the sleeve to crack. Moreover, please note that the heat generated when the adhesive stiffens and when the capacitor's coated sleeve come in contact with other parts of the capacitors, such as the lead wire or the patterns on the two sided circuit board might damage the sleeve. (4) Nonconductivity The sleeve of the electric double layer capacitor is for display purpose. And, the insulation of the sleeve is not guaranteed. When mounting onto the circuit board, the wiring pattern must not hang on the capacitor's mounted part. (5) Storage The storage conditions of the electric double layer capacitor might influence its performance. (Storage conditions) \*Please do not store the capacitors in high temperature and high level of humidity. (The suitable storage condition is 5°C~35°C and less than 75% in relative humidity). \*Please do not store the capacitors in damp conditions such as water, salt water and oil, and also do not store the capacitors in an environment full of gassy state oil and salt. \*Please do not store the capacitors in an environment full of hazardous gas (hydrogen sulfide, sulfurous acid, nitrous acid, chlorine, ammonia, bromine, and methyl bromide, etc.) It occurs when fumigated with the halogen-fumigated material. \*Please do not store the capacitor in acidity and alkaline solvents environment. \*Please do not store the capacitor under the exposure to ozone, ultraviolet rays, and radiation. \*Please do not store the capacitor in an environment expose to external vibrations and impact. (6) Washing of circuit board after soldering Please consult before washing. (7) About disposal Please adopt the following actions when disposing the electric double layer capacitor. 1. Please incinerate when the capacitor is punctured or when it is crushed thoroughly. 2. Please consign it to a special industrial waste disposal company when not incinerating the capacitor. The above precaution for use applies to JEITA RCR-2370C (Safety Application Guide for electric double layer capacitors.) Please refer to the above-mentioned guideline for more details.

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