

PRODUCT SPECIFICATION

Product Name	Electric Double Layer Capacitor Module
Model No.	MU3-124-003R01F1P-01
Document No.	QDR-AD-0190-01
Issuing Date	2015.8.17

Column for Note / Sign

[Attached Documents]

No.	Document Title	Document No.	
1	Outline Drawing of MU3-124-003RO1F1P-01	0300585101AP	



A . Main Specification

No.	Item	Specification (*1)	Remarks			
1	Environmental Condition					
1.1	Operating Temperature	0 to 50 deg.C	No Condensation.			
1.2	Operating Humidity	15 to 90 % RH	Keep less than 10 V			
1.3	Storage Temperature	while being stored.				
1.4	Storage Humidity	5 to 95 % RH				
2	Electrical Property					
2.1	Rated Voltage	124.2 V DC				
2.2	Peak Voltage	133.4 V DC				
2.3	Capacitance	3.5 F Typical	Before Shipment			
	Tolerance	within +/- 10 %	60A for measurement			
2.4	Internal Resistance	52 mΩ Typical	Before Shipment			
	Tolerance	61 mΩ Max.	60A for measurement			
2.5	Insulation Resistance	over 100 M Ω on 500V DC	Terminal to Enclosure			
2.6	Withstand Voltage	3000 V AC 1 minute	Terminal to Signal circuit			
3	Structural Property					
3.1	Number of Cells	46 cells in series				
3.2	Dimensions (approx.)	(W) 143 (D) 396 (H) 227 mm	Refer to attached drawing			
3.3	Weight (approx.)	11 kg				
4	Added Function					
4.1	Cell Voltage Balancing	Resistors are connected in parallel for each cell				
		[Resistance] 120 Ω / cell				
		Current bypass type circuit				
		[Bypass voltage] 2.7 [V]/cell				
		[Bypass current] 82 [mA] (at 2.7[V]/cell)	[Rev. 03]			
4.2	Alarm Signal					
	Thermal Caution (TC)	Turned on while temperature of the cell is	The cell located			
		over 60 deg.C	in the center of module			
	Voltage Caution (VC)	Turned on while one or more cells are charged				
		over 2.9 V				
4.3	LED Lamp					
	Charged	Lighted gradually as the module voltage is rising	For caution about			
		[LED Color] Green	an electric shock			
	Voltage Caution	Lighted while VC signal is turned on	To pick up abnormal ones			
		[LED Color] Red				

(*1) on the condition of 25 deg.C unless otherwise mentioned



B. User Interface

No.	Item	Specification			Remarks		
1	Main Terminal						
1.1	Positive Terminal	Numbe	Number 1			Terminal covers	
		Size of Terminal M8			Tightening torque 0.3 N·m		
		Length	Length of Bolt 20 mm			(Terminal covers are	
		Tightening torque 5.5 N·m bu			bundled)		
		Markir	ıg		+		
1.2	Negative Terminal	Numbe	er		1		
		Size o	f Terminal		М8		
		Length	n of Bolt		20	mm	
		Tighte	ning torque		5.5	N•m	
		Markir	ng				
2	Signal Connector						
2.1	Type of Connector	SMP-	03V-BC	(J.S.T	. Mfg.)		J.S.T. Mfg. = Japan
	(*2)	2 conr	nectors to co	nnect w	ith other	module	Solder less Terminal Mfg.
2.2	Pin Assignment	No.	Symbol		Si	gnal	
		1	TC	TC Sig	gnal Outpu	ut	
		2	VC	VC Sig	gnal Outpi	ut	
		3	SG	Signal	Ground		
2.3	Type of	Open	Collector Out	put by	Photo Co	oupler	C = Collector terminal
	Signal Output Circuit	[while	turned On]	Sh	ort from (C to E (ground)	E = Emitter terminal
		[while	turned Off]	Ор	en from C	C to E (ground)	
2.4	Schematic Diagram of Signal Output Circuit	Cir VC Ou	tput cuit	upler	C E C	VC SC	\rightarrow
	Type of Photo Couplers	TLP78	35 (Toshiba	a)	or the eq	quivalent	(*3) [Rev. 03]
	Signal Circuit Voltage	5	~ 24	V DC			Recommended Range
	Signal Circuit Current	1	~ 10	mΑ			

- (*2) Connectors which mate with the signal connectors are not bundled normally.
- (*3) Refer to Datasheet published by the manufacturer for the detail property of the photo coupler.



C. Fan Spec

No.	Item	Specification	Remarks
1	Fan type	AC FAN type UHS4556 (IKURA SEIKI CO.,LTD.)	(*4)
2	Rated Voltage	AC 200 [V]	
3	Input power	20 [W]	
4	I///arrant//	Please inquire the fan manufacturer about the warranty on this product.	
5	Option	The plug code is not attached.	

(*4) Please refer to the appendix. (QDR-AD-0163)

D. Controlled Substance

No.	Contents
1	RoHS Compliant (European Directive 2002/95/EC of 27 January 2003)

E. Others

No.	Contents			
1	Oo not Turn Over or Turn Sideways			
2	Prohibit Reverse Charging or AC Charging			
	It could be fixed on the ground through the 4 U-shaped holes (ϕ 7.0) by M6 bolts.			
3	The holes of metal bracket come right on the respective screw U-shaped holes of the module.			
	Tightening torque 4.3 N·m (Metal bracket are bundled)			

F. Accessory

No.	Part name	Number
1	Terminal cover	2
2	Pan-head screw M3-6	4
3	Metal bracket	2

G. Circuit Board

No.		Circuit Board Name
1	A22	(88

[Revision History]

Rev.	Comment	Date	Drawn	Checked	Approved
01	Initial Release	2015.08.17	M.S	-	M.Shimizu

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