3rd Angle System Unit ; mm Drowing Not to Scole



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dig-enc-evq1wf00210b-r00

REFERENCE ONLY 2/8		TYPE NO. EVQ 1WF 002 108
JE REVISIONS DATE		CENTER SPACE ENCODER
		·
	Bouncing OFF 13 3.5V	
(Measurement circuit diagram 1.) (At rotation speed 20r/min) x. (Passing time over 3.5V.)	(Me (At 3 ms max.	1.8) Chattering noise †3
(Between all terminals and bracket) 3 ms max.(Passing time between 3.5V and 1.5V)	(Between all terminu : 8 ms max.(Passing	1.7) Bouncing noise t1,t2
(Between all terminals and bracket) A.C 300V, 1 min.	(Between all term) A.C 300V, 1 min.	1.6) Withstand voltage
and B is stable DN or 250V)		
ດ max. ween Com. and A is stable ON or OFF.	between terminals : 1 a max. : Qutput between Com.	<ol> <li>1.3) Contact resistance betwee</li> <li>1.4) Detent position</li> </ol>
signals.(Output of phase difference) Ise / 360°	: A,B 2 signa : 10 Pulse / (	<ol> <li>1.1) Output signal</li> <li>1.2) Output resolution</li> </ol>
		<u>1 Electrical Specification:</u>
product drawing	: See attached : DC1OV : 1mA	4) Dutline and Dimension 5) Power rating
	-40° - +85°C -40° - +85°C This applica	<ol> <li>Dperating temperature range:</li> <li>Storage temperature range :</li> <li>Application :</li> </ol>
IN MILLIMETERS. DU NUT SCALE DRAWING	: +	General dimension folerance : General:

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3/8	REFERENCE ONLY	REFERENCE	TYPE NO. EVA 1WE 002 108
DATE	REVISIONS	ISSUE	NAME CENTER SPACE ENCODER
	bints. t angle : 18°±3° Excepting tion play.)	20 detent points. (Each detent angle : 1 shaft rotation play.)	2.5) Detent point
nhting≻ > 35°C)	(Endless) (4Kgf) for 15s mm max.<3mN.m(300gf.cm) weighting> mm max.<3N(300gf) weighting.> 5 9.0mN.m(30 to 90gf.cm)(at5~35°C)	360° (Endless) 40 N (4Kgf) for ±0.3mm max.<3mN. ±0.4mm max.<3N(3 3.0 to 9.0mN.m(30	<pre>2) Mechanical Specification: 2.1) Shaft rotation angle 2.2) Shaft pull-push strength 2.3) Shaft play Radial play Thrust play 2.4) Shaft rotation torque (Detent torque)</pre>
	d ifference Stable position ofference Stable position ofference 118°±3° 118°±3° o N o N o N o N o C.W direction difference T1.T2.T3.T4 t rotation speed 20r/min erlife 7.5ms min	ARE IN MIL Phase (PIN NO.2) Signal (PIN NO.2) Phase (At Init Afte	THIRD ANGLE PROJECTION ALL DIMENSIONS General dimension tolerance : ± Measurement circuit diagram 1. Measurement circuit diagram 1. Measurement circuit diagram 1. PINA Signal 10kn Signal 10kn A O PINA A O PINA No.2 PINA No.2 PINA PINA O. 01 PINA PINA PINA PINA PINA PINA PINA PINA

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	2		SPACE ENCODER	CENTER	NAME
⊃	be item	The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	40°C±2°C, 90-95%RH for 96 hours After testing, the product shall be remained under normal room temperature and humidity for 1 hour before measuring	Humidīty .	
	be be	The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	-40°C±2°C for 96 hours After testing, the product shall be remained under normal room temperature and humidity for 1 hour before measuring	Low temp.	
بہ ا	be item	The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	85°C±2°c for 96 hours After testing, the product shall be remained under normal room temperature and humidity for 1 hour before measuring	High temp.	Ω ω
l			50,000 cycles shall be performed continously at speed rate 10 rpm with load of 10VDC 1mA (One rotation in CW direction and one direction in CCW direction are counted as 1 cycle)	Operation life with load	 ນ
	be item	SPECIFICATION The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	50,000 cycles shall be performed continously at speed rate 10 rpm (One rotation in CW direction and one direction in CCW direction are counted as 1 cycle)	I Deration life without load	<u> </u>
	DRAWING	DO NOT SCALE	ALL DIMENSIONS ARE IN erance : ± ication:		

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REVISIONS	SPACE ENCODER	CENTER	
		5	
The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	The product shall be tested as under following condition and measure after testing: 1) Vibration frequency range :10-55Hz 2) Tatai amplitude :1.5mm 3) Sweep ratio 2) Method of changing sweeping :Coppres. I min 4) Method of changing sweeping :Coppres. I min 5) Direction frequency :2 directions 5) Direction of vibration :2 directions bords and the second	3.8 Vibration	
	After testing, the product shall be remained under normal room teperature and humidity for 1 hour before measuring	•	
The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	DC voltage 1.5 times as much as rated voltage shall be applied continausly between terminals at 60°C±2°C, 90-95741% for 500 hrs	3.7 Humidity with load	
	After testing, the product shall be remained under normal room teperature and humidity for 1 hour before measuring		
	-40°C±2°C 30 min 30 min 10- 15 min		· · · · · · · · · · · · · · · · · · ·
	Temp .		
The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall	5 cycels of below sequence shall be performed: +85°c±2°∈− — — — — —	.6 Temp. cycling	<del></del>
SPECIFICATION	TEST CONDITION	ITEM	

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0		R	DRAWING		TYPE NO.
	DATE	REVISIONS	ISSUE	CENTER SPACE ENCODER	NAME
	βυ	ls during solderi erformance.	ical p	e loo ght o	6 If th it mi
	icherior ich by: ty to	oder quality. in circuits are s design a set wh view the effect ance and perform maximum safety protective devic protective devic dose not cause	re enc ed. ope in adv ensure t or a to imp to imp	hough care is taken to ens racteristics, short circui blems that might be genero ces maximam emphasis on so single fault of a encoder tually fail-safe design to paring a protective circu paring a redundant circui that the single fault of a angerous situation.	
1977 - 1.118		in used in encoder rds (flammability preading fire may ding fire is requested	r res tanda e a s sprea fety	ion UL94 ion whe lainst a which s	J For gen gen u
۳ 	nge becaus sult ted ion using	nd its rated ra mal use may re d out of its ra rrent interrupt		ed items on fire and tely svoid use of a e cause a fire. If mis ditions which the enc take proper measures ective circuit.	4 Prohi Abs it in ran p
	h taking Nicro	d be designed with ne design of the mi ation.	shoul and th	der's pu g speed, softwor	mee ro o
	a shall a shall a avoid	at high temperatu he storage period bag en handling to P.C.B so as to	place lases.T rce wh ing in	storing the products in a umidity and in corrosive g hs and must be sealed in p eful to avoid excessive fo ts, especially when insert ation of terminals.	1 Avoid high h 6 mont 2 Be car produc deforma
				plication Notes>	< 🛆 Ap
	SCALE DRAWING	TERS. DO NOT	IN MILLIME	dimension tolerance : ±	General di
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Matsushita Electronic Components (M) Sdn. Bhd	TYPE NO. EVQ 1WF 002 10B	NAME CENTER SPACE ENCODER	<ol> <li>Handling of approval specify</li> <li>This specification specify for your approval testing in the ac- beforehand.</li> <li>Please return one copy of this a approval stamp or signature to happened that the item can not the awritings in this specification a through precautions.</li> </ol>	ng : (1) Our identification mark 🕅	<u>ring conditions</u> <u>hen dipping in solutions</u> <u>Specific gravity of</u> Flux foaming time - Flux foaming level - Flux faming level - Time Time Time Time Time The conditions mentions Material should be per- Material Material Material	THIRD ANGLE PROJECTION ALL DIMENSIONS ARE General dimension tolerance : ±
nponents (M) Sdn. Bhd.	REFERENCE ONLY	ISSUE	s specification with our this item only. F actual application with s specification with ous.Otherwise, it the supplied. on are subject to ch	-	flux by the 20.005 n 5 s or less or less or less withi or less within piercing plan. The flux by pre- piercing plan. The solder of the solder the solder. S against spattered case of wiring lux is spattered cal trouble. Id be perform	IN MILLIMETERS.
		REVISIONS	on conditions with your it might be change		hod Flu Flu sin Lamin therefor wire near therefor ithin 3	DO NOT SCALE DRAWING
	8/7	DATE			sec the ked *	VING

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	DRAWING ND. REFERENCE ONLY	1WE 002 10B	TYPE NO. EVA 11
REVISIONS DATE	ISSUE	SPACE ENCODER	NAME CENTER S
	Silicon oil	7 Grease S	
	Phosphor Bronze	Spring	J
Ag Plating	Brass	Contact Plate	ហ
Ag Plating	Ni Silver Strip	Terminal & Brush	4-
Zn-Ni plating	Steel Sheet	Cover	ω
	ΡΒŢ	Case	N
	Polycarbonate (Transparent)	Shaf t	
Treatment	Material	. Part Name	No
DO NOT SCALE DRAWING	RE IN MILLIMETERS.	ION ALL DIMENSIONS ARE talerance : ±	THIRD ANGLE PROJECTION General dimension tal
i.			

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