

Excellent Integrated System Limited

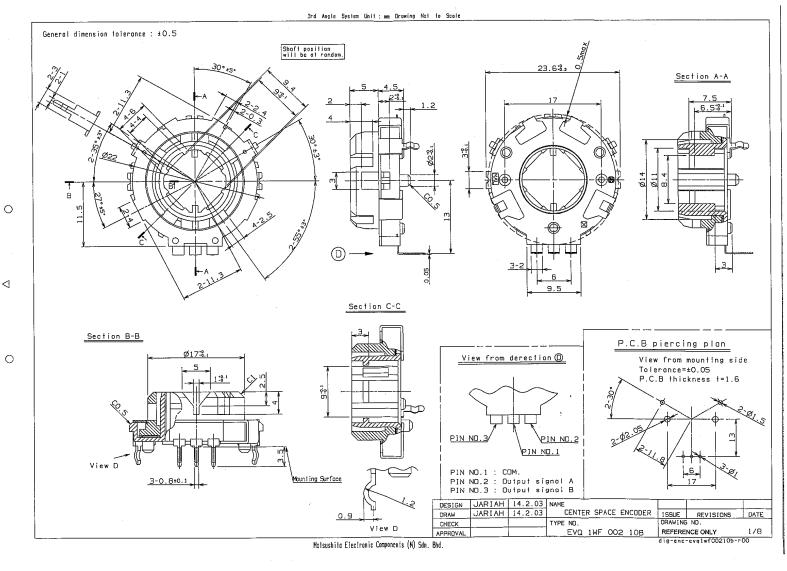
Stocking Distributor

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Panasonic Electronic Components EVQ-1WF00210B

For any questions, you can email us directly: sales@integrated-circuit.com







TYPE NO.

EVO 1WF 002 108

Matsushita Electronic Components (M) Sdn. Bhd

REFERENCE ONLY DRAWING NO.

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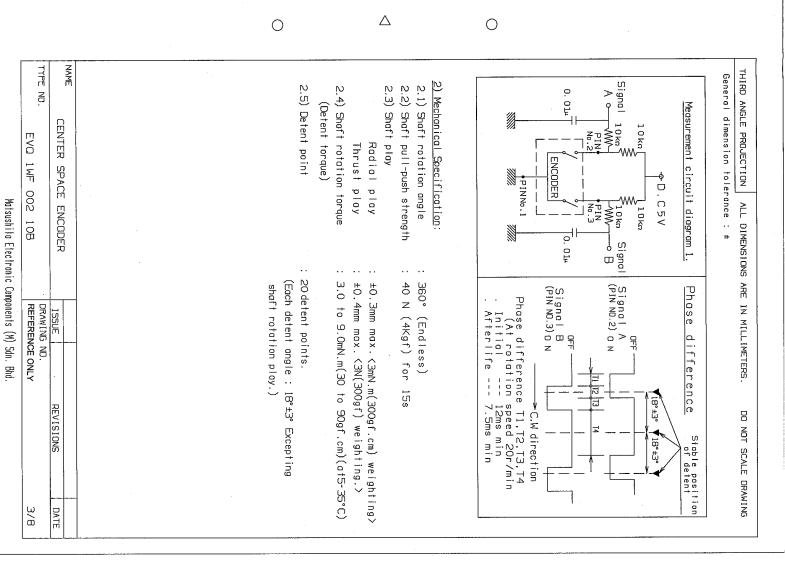
Distributor of Panasonic Electronic Components: Excellent Integrated System Limited Datasheet of EVQ-1WF00210B - ENCODER OPEN CENTER 22MM 20PPR

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0 NAME <u>General</u>: THIRD ANGLE PROJECTION | ALL DIMENSIONS ARE IN MILLIMETERS. 1 Electrical Specification: 4) Outline and Dimension5) Power rating 2) Storage temperature range : -40° - +85°C3) Application : This applica 1.8) Chattering noise t3 1.7) Bouncing noise t1, t2 1.6) Withstand voltage 1.2) Output resolution 1.1) Dutput signal 1) Operating temperature range: -40° - +85°C 1.4) Detent position General dimension tolerance : ± 1.5) Insulation resistance l.3) Contact resistance between terminals : 1 α max. CENTER SPACE ENCODER Voltage Threshold See attached product drawingDC10V : 1mA : This application is applied to low current circuit of electrical equipment o z : 8 ms max.(Passing time between 3.5V and 1.5V) Output between Com. and B is stable ON or OFF. : 50 Ma min. (At D.C250V) : 10 Pulse / 360° 1.50 : Quiput between Com. and A is stable ON or OFF. : A,B 2 signals.(Output of phase difference) : A.C 300V, 1 min. 3 ms max. (Passing time over 3.5V.) Bouncing (Between all terminals and bracket) (Between all terminals and bracket) (Measurement circuit diagram 1.) (At rotation speed 20r/min) REVISIONS DO NOT SCALE DRAWING DATE

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TYPE	NAME	1.00		ω 4	ü	, S	3	THIRD Gener 3 Envi
NO. EVQ	CENTER			Low temp.	High temp.	Operation life with load	Operation life without load	ANGLE PRO-
1WF 002 10B REF	SPACE ENCODER 155		40°C±2°C, 90-95%RH for 96 hou After testing, the product sha be remained under normal room temperature and humidity for 1 hour before measuring	-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	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	SD.,COO cycles shall be performed continously at speed rate 10 rpm with load of 10VDC lmA (One rotation in CW direction and one direction in COW direction are counted as 1 cycle)		ALL DIMENSIONS ARE rance : # cation: TEST CONDITION
DRAWING NO. REFERENCE ONLY	ISSUE REVISIONS		The product shall satisfy 1.3, 1.5 and 1.6 II No abnormality shall found by appearance	The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall found by appearance	speed speed	The product shall satisfy 1.3, 1.5 and 1.6 No abnormality shall on found by appearance	IN MILLIMETERS. DO NOT SCALE DRAWING SPECIFICATION
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TYPE	NAME		3.8		3.7				3.6		THIRD
NO.			Vibr	•	Humidity Ioad				Temp.		ANG ANG
EVQ	CENTER		Vibration		dity				. cycling	TEM	JLE PROJEC
0 1WF					with				ling		1 - ;
	SPACE	1) Vib 22) Tot 3) Swe 4) Med vib 5) Diri	The under	After be re teper hour	DC vo	After be re teper hour		Normal temp.	5 cyce shall +85°C±2°E		TON ALL
002 1	ENC	ration to an ampliful and of control of cont	oroduo fol	tes: emaine ature befor	oltage ated of ied co inals	test maine ature	c	· <u>-</u>	5 cycels shall be 85°c±2°e——	TEST	
108	ENCODER	requenc fude hanging requenc f vibra	ct sho lowing	ting, ed unc e and e mec	0.1.5 0.1+0.0 0.1+0.0 0.1+0.0 0.1+0.0	ing, id unc and	 0.30		perfi	1 1	DIMENSIONS
	:	y range sweepin	dil be g cond testin	the p der no humic	times ge sho busly)°C±2°	the p der no humio surir	min 10-15		of below sequence performed:	CONDIT	SNO18
7 0		:10-5: :1.5m :10-5: :0-5: :2 dir :2 hot	tes dition	produc prmal dity f	s as r between	produc prmal lity f	30 min		sequel	NOIL	ARE I
DRAWING NO. REFERENCE ONLY	ISSUE) Vibration frequency range: :10-559tz 2) Total amplitude: 10-559-10tz 3) Sweep ratio: :00-559-10tz 3) Sweep ratio: :00-579-10tz 4) Method of changing sweeping :Coeprity. Initial College Special Company of the College Special College Spec	The product shall be tested as under following condition and measure after testing:	After testing, the product shall be remained under normal room teperature and humidity for 1 hour before measuring	DC voltage 1.5 times as much as rated voltage shall be applied continously between terminals at 80°C±2°C, 90-934% for 500 hrs	After testing, the product shall be remained under normal room teperature and humidity for 1 hour before measuring	15 min		nce		IN MILLIMETERS.
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NAME TYPE NO SAIF ហ N General dimension talerance : ± σ Prohibited items on fire and smoking The encoder's pulse count method should be operating speed, sampling time, and the des computer software, etc. into consideration. Avoid storing the products in a place at high temperature, high humidity and in corrosive gases. The storage period shall 6 months and must be sealed in plastic bag Be careful to avoid excessive force when handling products, especially when inserting into P.C.B so For use in equipment for which safety is requested deformation of terminals. If the load is appllied to the terminals during soldering it might cause failure in electrical performance. The grade of nonflammability for resin used in encoders is "94HB," which is based on UL94 Standards (flammability test for plastic materials). Prohibit use in a location where a spreading fire may be generated or prepare against a spreading fire. ANGLE PROJECTION preparing a protective circuit or a protective device to improve system safety, and preparing a redundant circuit to improve system safety so that the single fault of encoder dose not cause a dangerous situation. Although care is taken to ensure encoder quality, inferior characteristics, short circuits, open circuits are some problems that might be generated. To design a set which places maximum emphasis on safety, review the effect of any single fault of a encoder in advance and perform virtually fail—safe design to ensure maximum safety by: Absolutely svoid use of a encoder beyond its rated range because it may cause a fire. If misuse or abnormal use may result in conditions which the encoder is used out of its rated range, take proper measures such so current interruption using a protective circuit. Application Notes> CENTER SPACE ALL DIMENSIONS ENCODER ARE IN MILLIMETERS REFERENCE ONLY DRAWING NO be designed with taking design of the micro 8 REVISIONS as to avoid NOT SCALE DRAWING 8/8 DATE

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Distributor of Panasonic Electronic Components: Excellent Integrated System LimitedDatasheet of EVQ-1WF00210B - ENCODER OPEN CENTER 22MM 20PPR

Δ 0 0 THIRD ANGLE PROJECTION Soldering conditions General dimension tolerance : ± ω Handling of approval specification : 4 \wp This specification specify for this item only. Please perform your approval testing in the actual application conditions beforehand.

Please return one copy of this specification with your approval stamp or signature to us.Otherwise, it might be happened that the item can not be supplied.

Writings in this specification are subject to change じ 1) Marking : (1) Dur identification mark ₪ it may cause electrical contact or mechanical trouble. When soldering by hand, the job should be performed at 350°C within 3 sec. Particularly, care should be taken in the case of wiring such as jumper wire near the encoder body where flux is remaining. If flux is spattered to the product body, Soldering should be performed at 250 $^{\circ}\text{C}$ or less within 3 sec. Soldering can be allowed twice only. After flux application, sufficiently dry the flux by preheating under the conditions mentioned below. When dipping in solder, apply the flux by under the conditions mentioned below. Conditions of P.C.B special care should be taken when dipping in solder The product is open-type, being defenseless against spattered flux, and therefore up from terminals and electrical contact. the conditions (1)-(4) are satisfied, there will be no problems such as flux sucked Mounting terminal hole ------ P.C.B. piercing plan. Specific gravity of flux --- 0.83±0.005 Flux foming level ----- 1/2t or less Flux foaming time ----- Within 5 s Material ---Thickness ----lemperature -----*) If you use Double side copper clad phenolic resin laminates we would like to negotiate with you for the soldering conditions ALL DIMENSIONS ----- 50 ~ 70s ------ Single side copper clad phenolic resin Laminates. 90~100°C (Ambient temp.) ARE IN MILLIMETERS. (2) Date code the foaming method P.C.B 8 NOT SCALE DRAWING or less

NAME

CENTER SPACE ENCODER

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	Phosphor Bronze	Spring	<u>o</u>	
Ag Plating	rass	Contact Plate Br	И	
Ag Plating	Ni.Silver Strip	Terminal & N Brush	4	0
Zn-Ni plating	Steel Sheet	Cover	ω	
	PBT	Case	2	
and the state of t	(Transparent)	Shaft P.	1	
Treatment	Material	Part Name M	No. F	Δ
DO NOT SCALE DRAW	E IN MILLIMETERS.	ALL DIMENSIONS ARE	General dimension tolerance	0
W.V.	- Language			