

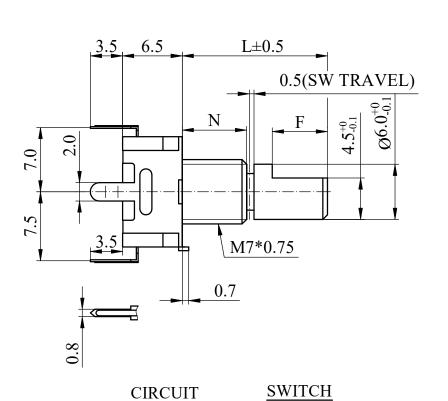
## 松暉電機工業股份有限公司 SONG HUEI ELECTRIC CO., LTD. 佛山市松暉電機科技有限公司 FOSHAN SONG HUEI ELECTRIC CO., LTD.

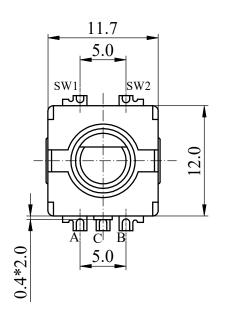
	一般事項 General					
使用溫度範圍						
Operating temperature	-10 °C ~ 70 °C					
T   S   T   T   T   T   T   T   T   T						
Storage temperature	-40 °C ~ 85 °C					
	電氣特性 Electrical Characteristics					
額定功率						
Power rating	DC 5 V 0.5 mA					
絕緣阻抗	$\geqslant 100 \text{ M}\Omega$ at DC 300 V					
Insulation resistance	≥ 100 M22 at DC 300 V					
耐電壓	For 1 minute or more ( at AC 300 V )					
Withstand voltage						
滑動雜訊 Sliding noise	$t1, t3 \le 3$ mS, $t2 \le 2$ mS (Test conditions 測試條件: $360 \circ / S$ ) Using the C / R filter circuit is recommended 建議使用 C / R 濾波電路 $0 \in V$ $10K\Omega$ $10K\Omega$ $10K\Omega$ $10K\Omega$ $3.5V$ $10K\Omega$ $3.5V$ $10K\Omega$ $3.5V$ $1.5V$ $1.$					
分解能力 Resolution	20 pulses / 360° for each phase 每相 20 脈衝 / 360°					
相位差 Phase difference	$\triangle$ T = 0.25 ± 0.17 T					
輸出信號和旋轉方向 Output signal and rotational direction	逆時針方向 A Signal OFF ON OFF ON OFF ON ON OFF ON OFF ON OFF ON ON OFF ON O					
	機械特性 Mechanical Characteristics					
全回轉角度 Total rotational angle	360 °					
全回力矩 Rotational torque	20~200 gf.cm (Shaft may be hard rotatable at -10 ℃~+5 ℃ 但在 -10 ℃~+5 ℃ 軸勉強可轉動)					
軸推拉力矩 Shaft push-pull strength	8 Kgf max					
定位點數及位置 Number and position detent	□ 20 detents ( Step angle: $18 \circ \pm 3 \circ$ ) □ 30 detents ( Step angle: $12 \circ \pm 3 \circ$ ) □ 0 detents ( Step angle: $360 \circ$ )					
軸向間隙 Shaft play in axial direction	0.4 mm max					
軸擺動 Shaft wobble	0.7 * L / 30 mm p-p 以下( L: 指安裝平面到軸的柄端的距離 ) 0.7 * L / 30 mm p-p Max L: Distance between mounting surface and the top of the shaft.					
軸的回轉方向擺動 Shaft play in rotational wobble	5°以下 5° Max					
回轉壽命 Rotational life	30,000 cycles at a speed of 600 cycles / per hour 每小時 600 圈的速度測試					



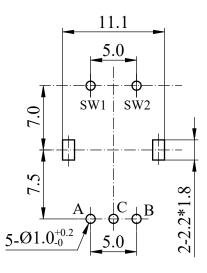
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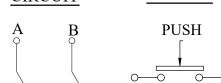
	手焊: 300 ℃ 以下,3 秒以內. 自動或半自動機台焊錫條件: 預熱:基板表面溫度 100 ℃ 以下, 時間 1分以內,過錫爐: 260±5 ℃ 3~5 秒					
焊錫耐熱性	Manual soldering: less than 300 °C and within 3 seconds.					
Resistance to soldering heat	For automated or semi-automated soldering equipments:					
	Preheating: surface temperature of board: less than 100 °C and within 1 min.					
	Auto soldering: $260 \pm 5$ °C for $3 \sim 5$ seconds.					
	推動開關規格 Push-on Switch Specific Ations					
開關電路	Single pole and single throw ( push on ) 單極單投 ( 推動 )					
Switch circuit	Single pole and single throw ( push on ) 丰極丰汉 ( 推動 )					
開關工作行程	0.5 +0.4					
Switch travel (mm)	0.5 <sup>+0.4</sup> <sub>-0.3</sub> mm					
開關作動力	500 +200 of our					
Switch operating force	$500^{+2.00}_{-200}$ gf.cm					
開關額定功率	DC 5 V 10 mA					
Switch rating power	DC 3 V 10 mA					
開關接觸阻抗	第一個週期: 100 mΩ, 在有效的壽命範圍結束後 200 mΩ。					
Switch contact resistance	First period $100 \text{ m}\Omega$ ; $200 \text{ m}\Omega$ after the end of useful life is reached					
開關按壓壽命	20.000 1 /500 1 /11 1 0 11 111 0 检顾上11 以下 500分/11					
Switch push life	20,000 cycles (500 cycles / H, shaft push load 1 kgf max;按壓力 1 kg 以下,500 次 / H)					
	Note 注明:當產品無帶開關結構時,以上推動開關規格整項取消					
Note: When product without switch structure, the above switch specifications are cancelled.						





#### Mounting Hole





	N=5					N=/												
L=	10	11	13.5	13.5	15	17.5	20	15	15	17.5	17.5	20	20	25	28	30	Non notation	tolerance
F=	4	4	5	7	7	10	10	5	7	7	10	7	10	12	7	12	< 10	±0.3
CHOOSE																	10 ~ 100	±0.5
Standard	-	ı	-	1		-	•	-		-	ı	-		-	-	ı	> 100	±0.8

2:1



 $\circ$  C

MODEL: ED1115S(F)/LAL/0496

▲★★★全版更新何鸿根 2024.07.08SSUE SUBJECTNAME DATE

Approval



Checked



Drawn

SW1

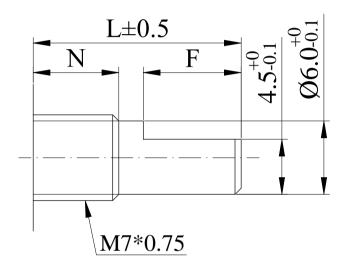


SW2

UNIT	mm	SCALE	
VERSION	1.1	DATE	
DRAWING	ED-062	$\bigoplus$	{

2:1	$\triangle$	全版更新	何鸿根	2024.07.
2016.12.15	ISSUE	SUBJECT	NAME	DAT
		RECORD		

# Shaft Types 軸型:

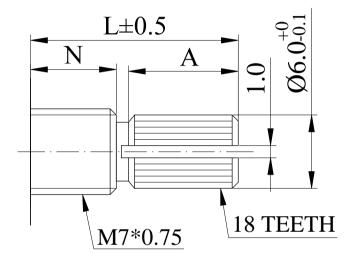


F Type N=5mm

L=	15	17.5	20
F=	7	10	10

N=7mm

L=	15	17.5	20	25	30
F=	7	10	10	12	12



KC Type N=5mm

L=	10	15	20
A=	4	6.5	10

## N=7mm

L=	15	20	25	30
A=	6.5	10	15	17