



3				% Linkman®			
1 NO	DATE	DE	SCRIPTION	DRAWING NO	R1610G-QB1-A		
TOLERANCE		SCALE	DRAWN BY	CHECK BY	APPROVED	BY	
less than 10±0.3		3/2	(18)				
above 10-30±0.5		DIMENSION	2017 - 4 - 1.4 ,	(7311 - 4 - 14.)	101-4-18-		
abo	ve 30-	100±1.0	m/m	于药	朝茶人	203/	

阻値

Mechanical characteristics:機械的性能:

Item<項目>	Test methods<試驗方法>	Performance<性能>
Total rotational angle/travel 全迴轉角度/行程	Determined by measuring the rotational angle(travel) when the shaft(lever) is turned(moved) from the end position of terminal 1 to the end position of terminal 3. 軸(柄)置予 1 端最底部移往 3 端最底部之旋轉角度(移動行程).	300°±5°
Rotation torque 迴轉扭力 Shaft rotational stopper strength 軸的止迴轉強度	Determined by measuring the torque(operating force) necessary to turn(move) the shaft(lever). Unless otherwise specified, measurement shall be made at ambient temperature of 5 to 35°C, and the shaft rotational speed shall be 60° per second and the lever traveling speed 20mm per second. 测定扭力必須要旋轉軸或移動推柄,周圍溫度在5~35°C時,軸以每秒60°速度轉動,推柄以每秒20mm速度滑動,特殊品除外. <以扭力計或拉力計測得> With the shaft(lever) placed at the end of terminal 1, a specified torsional moment(force) shall be applied in that	90±30 gf-cm
书面中 <u>了工。</u> 定当季于了地方文	direction for 10 seconds. Next, the shaft(lever) shall be placed at the end of terminal 3 and a specified torsional moment(force) shall be applied similarly, to check the operating part and other related sections for deformation, breakage, etc.	7 kgf-cm
Push-pull strength 軸推拉強度	A specified force shall be applied in the axial direction of the shaft(lever) for 10 seconds to check the operating part and other sections for deformation, breakage, operating condition, etc. 以軸(柄)的軸線方向施加力量,經10秒後,核對部份動作之有無斷面變形、破損、等情況.	7 kgf

阻値

Electrical characteristics:電氣的性能:

Electrical characteristics:電氣的性能:					
Item<項目>	Test methods<試驗方法>	Performance<性能>			
Resistance taper 阻值線性	With the shaft(lever) placed in the specified position, shall be determined by measuring the voltage between the specified terminals(between terminals 1 and 2 or between terminal 2 and 3) and calculating the percentage in reference to the voltage between terminals 1 and 3. 軸(柄)在特別位置測定特別端子間的電壓(端子 1 至端子 2 之間或端子 2 至端子 3 之間)參考端子 1 到端子 3 之間的電壓計算的百分比.	Α			
Reference: Standar	d resistance tapers in reference to rotational	angles(travel) are as			
shown below: 參考:標準阻値曲線及旋軸	事角度(行程)表示如下: TAPER A SERIES TO SON TO A INJUNCTION IN TO A SERIES TERMINAL 1 SERIES TERMINAL 1 SERIES TERMINAL 3 SERIES	angles(navel) are as			
Total resistance	With the shaft(lever) placed at the end of	1			
總阻值	terminal 1 or 3, shall be determined by measuring the resistance between the resistor terminals 1 and 3 unless otherwise specified. 軸(柄)位置於端子 1 或 3 終端處,測定端子 1 到 3 的電阻值.	10K ~ 100KΩ			
Total resistance					
tolerance 總阻値容許差		±20%			
Max. operating	Terminal 1 to 3 that can be applied to the	. MAX .			
voltage 最高使用電壓	maximum voltage. 脚之 1 和脚之 2 所能系码黑土霉菌	150V			
Residual resistance	端子 1 到端子 3 所能承受最大電壓 With the shaft (lever) placed at the end of				
残留阻值	With the shaft (lever) placed at the end of terminal 1, shall be measured between the terminals 1 and 2. Next, with the shaft (lever) placed at the end of terminal 3, the resistance shall be measured between the terminals 2 and 3. If there are tapped terminals, the shaft(lever) shall be turned(moved) and the resulting minimum resistance between the tapped terminal and the terminal 2 shall be measured. 軸(柄)轉到端子 1 最終位置,測定端子 1 2, 軸(柄)轉到端子 3 最終位置,測定端子 2 3,所得最小阻值即是.	250KΩ>R>10KΩ 20Ω max. 10KΩ≧ R 10Ω max.			

阻値

Item<項目>	Test methods<試驗方法>	Performance<性能>
Rated power	The maximum value of electric power that	[17]
定格電力	can be applied continuously to the whole	
	area of a resistor (between terminals 1	
	and 3) at the rated ambient temperature.	
	Meanwhile, assuming that the rated	
	ambient temperature of a carbon film	
	resistor is 50°C, then the maximum power	
	at an ambient temperature of 50~70°C	
	can be obtained by multiplying the rated	
	power by the rated power ratio determined	
	from the derating curve shown below:	
	周圍溫度相同,最大電力值能連續使用電阻完整面積	
	(指端子1到端子3之間).	0.06W
	此時,假設炭膜阻值周圍溫度比是 50°C, 最大電力值周圍溫度 50~70°C 可獲得定格電力比決定如下表示	
	定格電力的軽減曲線 Derating curve	
	100	
	§ 80	
	程 H 60	
	(元) (2	
	(%) (%)	
	₩ 20	
	0 20 40 50 60 70 80 100	
	周園温度(*C) Ambient temperature (*C)	
Rotational/sliding	Measured by connecting the resistor to the	以前中期
noise	amplifier having frequency charactristics	
迴轉/滑動雜音	specified in JIS C 6443, (if rated voltage is	
	20V or less, this voltage shall be applied)	
	and by rotating (moving) the shaft (lever)	Less than 100mV
	at a speed of about 30 cycles per minute.	Less than 100m v
	依 JIS C 6443 測定.旋轉(移動)軸(柄)以每分鐘大約 30	
	次動作.<以雜音表測定>.	
Inculation registance	<u> Measured with a megger by applying</u>	
į	I	·
絕緣抵抗	specified voltage to the specified	
	locations.	
	The undermentioned spots shall be tested	
	unless otherwise specified. However, if the	N. J. 100140 -150
	section concerned is so constructed as to	More than $100M\Omega$ at DC
	conduct, that particular part shall not be	500V
	tested.	
	測定端子與端子間,端子與固定架間,所得電阻器基板	
	之絕緣電阻.	

阻値

Item<項目>	Test methods<試驗方法>	Performance<性能>
Gang error 相互偏差(同步)	With the shaft(lever) placed in the specified position, shall be determined by applying test voltage of 2 to 15V(sinewave RMS value) between the terminals 1 and 3 at 1,000±200Hz and measuring the voltage between the resistor terminal 2 and the specified terminal(terminal 1 or 3), and shall be calculated by the following equation.Meanwhile, unless otherwise specified, DC test voltage may be applied. Gang error=20 log * V2/V1 <用 DB 表測知>	-40 to 0dB dB≦ 3 dB
Manual Soldering heat 手焊錫溫度	Bit temperature of soldering iron:300°C for less Application time of soldering iron: Within 3s 溫度 300°C 以下,時間 3 秒鐘以內。	Below 300°c,Less than 3 seconds.

Durability:耐久的性能:

ltem<項目>	Test methods<試驗方法>	Performance<性能>
Rotational/sliding life 迴轉/滑動壽命	The shaft(lever) shall be turned at a speed of 600 cycles per hour(counting 1 reciprocating motion as 1 cycle) and 5,000~8,000 cycles a day over 90% of the effective rotational angle(total travel). Unless otherwise specified, the following requirements shall be met after the test is completed: Variation in total resistance: ±15% Slider noise: less than 150mV 在無負荷情況下,軸(柄)以每小時 600 次的速度(有效 來回 1 遍稱爲 1 次),有效移動距離達 90%以上,每日 5,000~8,000 次的使用次數測試, 全阻變化:±15%. 滑動雜音:低於 150mV.	15,000 cycles (15,000 次)

REMARK: 備註:	PREPARED BY	REVIEWED BY	APPROVED BY
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