



Product Specification

1 ELECTRICAL CHARACTERISTICS			
ITEMS		SPECIFICATION	
1-1.	Power Rating (@ 50°C)	0.2 Watt (linear) , 0.1 Watt (non-linear)	
1-2.	Electrical Rotation Angle	280°± 20°	
1-3.	Range of Resistance Values	100Ω ~ ≤ 5 meg	
1-4.	Resistance Tolerances	100Ω ~ ≤ 1 meg..... ± 20% ≥ 1 meg ~ ≤ 5 meg....± 30%	
1-5.	Max. Voltage	250 VDC-(linear), 125 VDC-(Non-linear)	
1-6.	Tapers	A = Linear, B = Logarithmic, C = Anti-Log	
1-7.	Residual Resistance	≤ 0.5% Rn (5 Ω min.)	
1-8.	Equivalent Noise Resistance	≤ 3% Rn (3 Ω min.)	
1-9.	Operating Temperature	-25°C ~ 70°C	
1-10	Insulation Voltage	500 VAC	
2 MECHANICAL CHARACTERISTICS			
2-1.	Total Rotation Angle	300°± 5°	
2-2.	Rotation Torque	0.5 to 1.5Ncm (0.7 to 2.1 in-oz)	
2-3.	End Stop Torque	> 40 Ncm (>56 in-oz)	
2-3.	Max. Torque Nut Tightening	< 80 Ncm (>112 in-oz)	
2-5.	Shaft Play in Axial Direction	>25 N	
2-6.	Rotational Life	25,000 cycles (10~15 RPM) With Switch: 10,000 cycles (1A / 50 VAC)	
3 SWITCH CHARACTERISTICS			
3-1.	Nominal Current	1A, 250 VAC	
3-2.	Contact Resistance	10 mΩ	
3-3.	Operating Torque	1 ~ 3 Ncm	
3-3.	Switch Angle	30° ± 5°	
3-5.	Test Voltage	500 V	
3 Tests			Typical Results
4-1	Electrical Life	1K hrs @ 50°C; 0.2 W	± 5%
4-2	Temperature Coefficient	-25°C ~ 70°C	± 300 ppm (Rn< 100K)
4-3	Thermal Cycling	16 hrs@ 85°C; 2 hrs@ -25°C	± 2.5%
4-4	Damp Heat	500 hrs@ 40°C @ 95% HR	± 5%
4-5	Vibration	2 hrs @ 10Hz.....55 Hz	± 2%