



- Features:-**
1. Conductive plastic long life resistance element.
 2. High quality engineering plastic sturdy low profile body.
 3. Precious metal high technology wiper gives noise free output.
 4. Special smaller electrical anglesavailable option.

ELECTRICAL CHARACTERISTICS :-	UNITS	VALUE
Resistance Element.....	--	Conductive Plastic
Resistance Range.....	Ohms	1k,5k,10k(other value up to 100k)
Resistance Tolerance.....	±%	20
Best Possible Resi Tolerance	±%	10
Standard Independent Linearity Tolerance...(IEC 393)..	±%	2
Best Possible Independent linearity		0.5
Electrical angle.....(Smaller angles optional)	Degrees	320°, ±5°
Resistance taps(Current / voltage type - optional)	--	Min.4° wide for Current tap
Resolution.....	--	essentially infinite
Temperature Coefficient of Resistance(TCR).....	ppm/deg C	±400
Power Rating @ 70°C.....	Watts	1.0
Insulation Resistance @ 500 Vdc.....	M Ohms	1000
Dielectric Strength @ 50 Hz.....	V ac	500
Maximum Wiper current.....	mAmps	1
short time wiper current 10 sec.	mAmps	10
End voltage as a % of applied voltage	%	Less than 0.5

MECHANICAL CHARACTERISTICS :-		
Rotation (Mechanical Angle) with end stop.....	Degrees	330°, ±5°
Bearing Type.....	--	Sleeve
Torque... Starting.....	Nmm (Oz inch)	5 (0.708)
Torque... Running.....	Nmm (Oz inch)	4 (0.566)
Spanner size of nut	m.m.	14.0 m.m.
Nut tightening Torque.....	N.m.	0.8 N.m.
Axial Play	m.m.(inch)	0.2 (0.00787) max
Radial Play	m.m.(inch)	0.2 (0.00787) max

ENVIRONMENTAL CHARACTERISTICS :-		
Operating Temperature.....	Degrees C	-50 to +105
ROHS compliance	--	Yes

PERFORMANCE :-		
Rotational Life (shaft Revolutions).....	Nos.	4,000,000 (Typical)

MATERIALS OF CONSTRUCTION:-		
Housing.....	--	Engg. Plastic
Shaft.....	--	Stainless Steel
Terminals.....	--	Brass,gold plated
Mounting Hardware	--	Lock Washer-steel + Nut-Brass both Nickel plated
Bushing.....	--	Brass on one end

Soldering Recommendation :- Use soldering Iron at 350° C for 3 second maximum
 * Standard tests have shown the life to be 5,000,000+. Confirmation test are continuing, waiting for consolidation of data.

CONDUCTIVE PLASTIC POTENTIOMETER

NP23

First Issue : 2009/03/10	Scale:- 1:1		CUSTOMER DRAWING REF NO -----	REV - 00
Tolerances DIN-ISO 2768-1 (1991-06) (Tolerance class-medium)				SHEET 1 of 1