

Electrical Schematic Diagram

- Features:-**
1. Conductive plastic long life resistance element.
  2. Anodized Aluminium precision machined body.
  3. Special smaller electrical angles..... available option.
  4. Precious metal high technology wiper gives noise free output.

ELECTRICAL CHARACTERISTICS	UNITS	VALUE
Resistance Element.....	--	Conductive Plastic
Resistance value	Ohms	1k,2k,5k,10k.
Standard Resistance Tolerances.....	%	±20
Standard Independent Linearity Tolerances..(IEC 393)..	%	±0.5
Electrical angle...	Degrees	355° ±3°
Resolution.....	--	Essentially Infinite
Temperature Coefficient of Resistance (TCR).....	ppm/deg C	±400
Power Rating @ 70° C.....	Watts	2
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 % of Applied voltage	%	0.5

**MECHANICAL CHARACTERISTICS :-**

Rotation (Mechanical Angle). .....continuous	Degrees	360°
Bearing Type.....	--	Ball Bearing
Torque... Starting.....	Nmm (Oz inch)	5 (0.1968 )
Torque... Running.....	Nmm (Oz inch)	4 (0.1574 )
Axial Play	m.m.(inch)	0.1 (0.00393)
Radial Play	m.m.(inch)	0.1 (0.00393)

**ENVIRONMENTAL CHARACTERISTICS :-**

Operating Temperature.....	Degrees C	-40 to +105
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**PERFORMANCE :-**

Rotational Life (shaft Revolutions).....	Nos.	5,000,000
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**MATERIALS OF CONSTRUCTION:-**

Housing.....	--	Aluminum Anodized
Shaft.....	--	Stainless Steel
Terminals.....	--	Brass, Gold plated stud type terminal

**Soldering Recommendation :-** Use soldering Iron at 350° C for 3 second maximum.  
Clean the soldered pads with Isopropyl alcohol after soldering.  
Continuous improvements are being made for enhancing performance for customer benefit in product design & process. The product supplied may be slightly different than described by above specifications



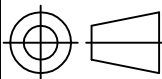
## SERVO POTENTIOMETER CONDUCTIVE PLASTIC

40CP

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SCALE:- 1:1

Tolerances  
DIN-ISO 2768-1 (1991-06)  
(Tolerance class-medium)



CUSTOMER DRAWING REF NO  
NA

REV - 00

CUSTOMER : UAPL STANDARD

SHEET :-