Precision Potentiometer



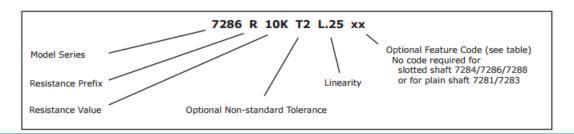
Mechanical

Total mechanical travel		3600° +15° -0°
Number of gangs		2 maximum
Weight (single gang)		0.75 oz. nominal
Backlash		1° maximum
	7281, 7284, 7286, 7288	7283
Static stop strength	Maximum 48 ozin.	36 ozin.
Panel nut tightening torque	Maximum 25 lbin.	n/a
Shaft end play	Maximum 0.010"	0.005″
Shaft runout	Maximum T.I.R. 0.003"	0.002"
Pilot diameter runout	Maximum T.I.R. 0.004"	0.002"
Lateral runout	Maximum T.I.R. 0.005"	0.004"
Shaft radial play	Maximum 0.003"	0.002"
Start/run torque (per gang, ES option adds 0.5 ozin.)	Maximum 0.8 ozin.	0.6 ozin.

Environmental

Operating temperature range	-40°C to +125°C dynamic, -55°C to +125°C static
Temperature cycling	5 cycles, -55°C to +125°C, maximum 5% ΔR
Shock	6 ms saw-tooth, 100 G's, 0.1 ms maximum discontinuity
Vibration	15 G's, 10 to 2,000 Hz, maximum 5% Δ R, 0.1 ms maximum discontinuity
Moisture resistance	Five 24 hour cycles, maximum 3% ΔR
High temperature exposure	1,000 hours at 125°C, maximum 5% ΔR
Rotational load life (1 lb side load for 7288)	1M shaft revolutions + 900 hours at 2.0 Watts & 70°C, maximum 5% ΔR
Ingress protection rating (IP Code)	IP50, IP66 available as option (feature code ES)

Ordering Information



General Note

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Feature Codes

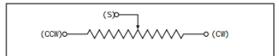
7281, 7283 plain shaft; 7284, 7286, 7288 slotted shaft	No code
Center tap	СТ
Linearity tape	LT
Flatted shaft	FS
Slotted shaft (standard on single cup 7284, 7286 & 7288 without RS feature)	SS
Rear shaft extension (7281, 7286, 7288 single cup only)	RS
Shaft lock (7286 & 7288 only)	SL
High torque 2-6 ozin. (7286 & 7288 only)	HT
Additional gang	2G
Gold plated solder lug terminals (see optional terminal configuration)	FT
Seal (IP66) 7284, 7286, or 7288 only	ES

When multiple feature codes are used the P/N shall be in the same sequence as listed in this table (top to bottom).

Standard Resistance Values

Total Resistance (Ohms)	Theoretical Resolution (% nominal)	Tempco of Wire (ppm/°C)
100	0.059	±20
200	0.037	±20
500	0.030	±20
1K	0.024	±20
2К	0.020	±20
5K	0.018	±20
10K	0.017	±20
20К	0.016	±20
50K	0.010	±20
100K	0.008	±20

Circuit Diagram



Available Turns Counting Dials

7281: RBJ, 2601, 2641

7286, 7288: RB, 2126, 2606, 2606S, 2607, 2607S, 2626, 2627, 2646, 2646S, 2647, 2647S

General Note

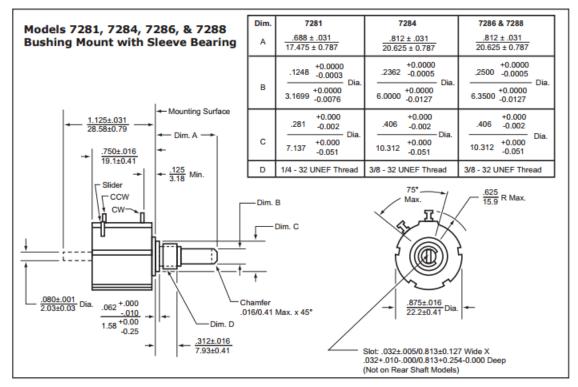
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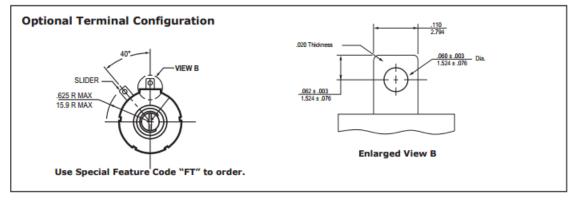
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Outline Drawing





General Note

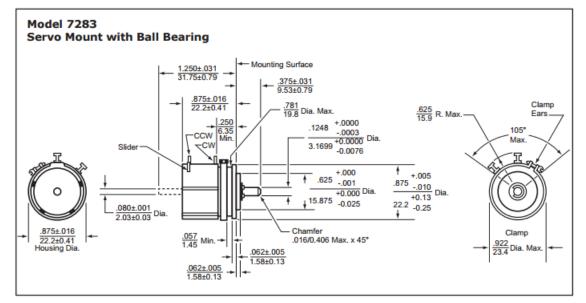
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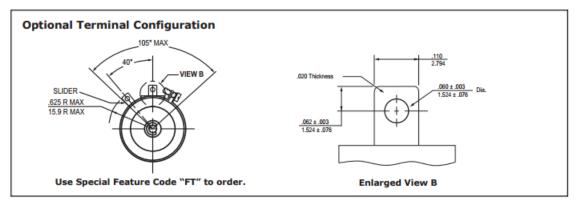
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Outline Drawing





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Issue	Change Description	Approval	Date
А			
В			2/2015
В			2/2013
С	Updated logo and fonts. Changed address in footer from Fullerton to Mexicali	Brooke Combs	4/5/2019

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