Position Measurement Sensor F78S, F78C, F78B, F78E

# Standard Precision MKV Potentiometers



Our line of Standard Precision MKV Potentiometers offer a cost effective way of obtaining high accuracy, long life position feedback. New England Instrument has many years of experience in successfully providing high reliability/high performance products to the military and aerospace industries and continues to expand that technical capability to the low cost/high performance industrial and commercial markets.

## **APPLICATIONS**

Value Positioning Panel Controls Instrumentation Missile Controls

**INDUSTRY** 

Aerospace Military Commercial Industrial



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# **Standard Precision MKV Potentiometers**

## **SPECIFICATIONS**

### MECHANICAL

Mechanical Travel:	360°
Mounting Type:	Bushing, Servo
Bearing Type:	Sleeve, Ball
Mounting Thread:	3/8-32NEF, 1/4-32NEF
Stop Strength (nominal):	n/a
Weight (max):	16 grams
Life Expectancy (cycles):	10mm - sleeve, 30mm - ball bearing
Torque (oz-in max):	0.5 - ball, 1.0 – sleeve
End Play (max):	0.005
Shaft Diameter (inches):	1/8 or 1/4

#### ELECTRICAL

ndependent .inearity-Standard:	±1.0%, ±0.5%, ±0.25%*
Total Resistance (ohms) Including Specials):	500 to 200k
Resistance Folerance-Standard:	±10%
Theoretical Electrical Travel:	340°
Power Rating @ 70°C watts):	1.0
Dutput Smoothness Der MIL-R-39023:	0.5%, 0.25%, 0.15%
End Voltage (max) (% of otal applied voltage):	1.0%
Dielectric Withstanding /oltage (RMS):	750
nsulation Resistance min):	1000 megohms
Resolution virtually infinite):	yes

### ENVIRONMENTAL

5hock: /ibration:	per MIL-STD-202 per MIL-STD-202
Temperature Range (operational):	-65°C to +125°C
Temperature Range (storage):	-65°C to +125°C

#### Unless Otherwise Specified

Decimal Dimensions: ±0.005 Fractional Dimensions: ±1/64

\* Consult Factory for custom OEM configurations.

## DIMENSIONS



# ORDERING INFORMATION

![](_page_1_Figure_16.jpeg)

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