

A-21-03

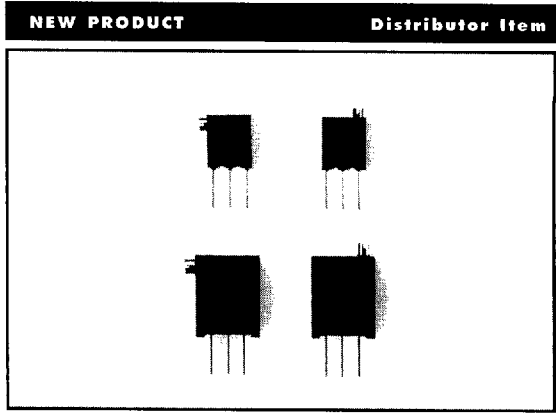
# RJ24, RJ26 SERIES

## MIL-R-22097 Qualified

### Multi-Turn

### Cermet Trimming

### Potentiometers



#### FEATURES/BENEFITS

- Teflon Rotor
- ISO 9000 Certified Factory

#### STYLES

RJ24	3/8" Square, Top or Side Adjustment
RJ26	1/4" Square, Top or Side Adjustment

#### ELECTRICAL

Standard Resistance Range, Ohms	10 to 1Meg
Standard Resistance Tolerance	±10%
Input Voltage, Maximum	200V dc or rms not to exceed power rating
Slider Current, Maximum	100mA or within rated power, whichever is less
Power Rating, Watts	RJ24: 0.5 at 85°C derating to 0 at 150°C RJ26: 0.25 at 85°C derating to 0 at 150°C
End Resistance, Maximum	2 Ohms or 2%
Actual Electrical Travel, Turns, Nominal	RJ24: 20 RJ26: 11
Dielectric Strength	RJ24: 900V rms RJ26: 600V rms
Insulation Resistance, Minimum	1,000 Megohms
Resolution	Essentially infinite
Contact Resistance Variation, Maximum	3% or 3 Ohms, whichever is greater

Specifications subject to change without notice.

## ENVIRONMENTAL (PER MIL-R-22097)

Seal	85°C Fluorinert® (No Leaks)
Temperature Coefficient, Maximum	F = ±100ppm/°C C = 250ppm/°C
Operating Temperature Range	-65°C to +150°C
Thermal Shock	5 cycles, -65°C to +150°C (1% ΔR <sub>T</sub> , 1% ΔVR) MIL-STD-202, Method 107, Test Condition B
Moisture Resistance	Ten 24 hour cycles (1% ΔR <sub>T</sub> , IR 100 Megohms Min.) Method 106, 96 hours
Shock, 6ms Sawtooth	100G's (1% ΔR <sub>T</sub> , 1% ΔVR) MIL-STD-202, Method 213, Test Condition I
Vibration	20G's, 10 to 2,000 Hz (1% ΔR <sub>T</sub> , 1% ΔVR) MIL-STD-202, Method 204, Test Condition D
High Temperature Exposure	250 hours at 150°C (2% ΔR <sub>T</sub> , 2% ΔVR)
Rotational Life	200 cycles (2% ΔR <sub>T</sub> )
Load Life at 0.5 Watts	1,000 hours at 85°C (2% ΔR <sub>T</sub> ) MIL-STD-202, Method 108, Test Condition D
Resistance to Solder Heat	350°C for 3 sec. (1% ΔR <sub>T</sub> )

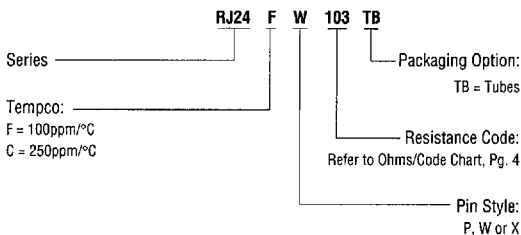
Fluorinert® is a registered trademark of 3M Company.

## MECHANICAL

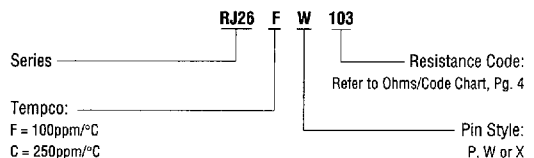
Mechanical Stops	Clutch action, both ends
Torque, Operating, Maximum	RJ24: 5 oz.-in. (0.035 N-m) RJ26: 3 oz.-in. (0.021 N-m)
Weight, Maximum	RJ24: .04 oz. (1.3 grams) RJ26: .014 oz. (.6 grams)

## ORDERING INFORMATION

### Model RJ24:

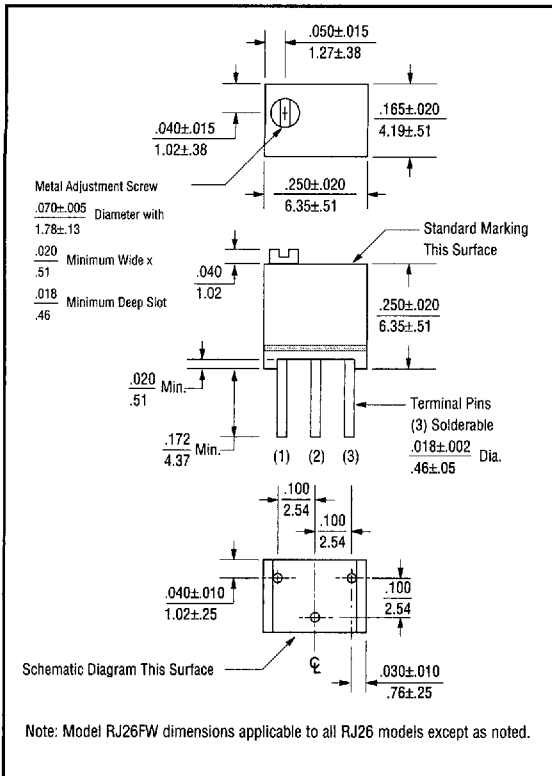


### Model RJ26:

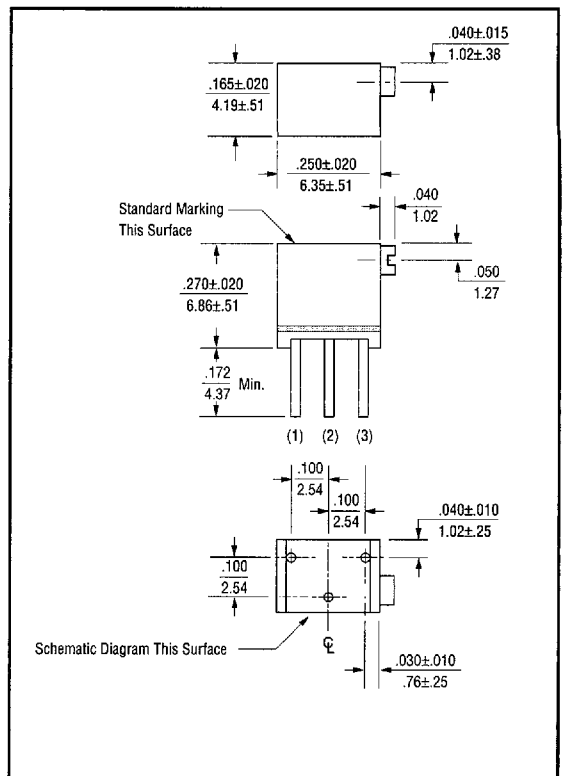




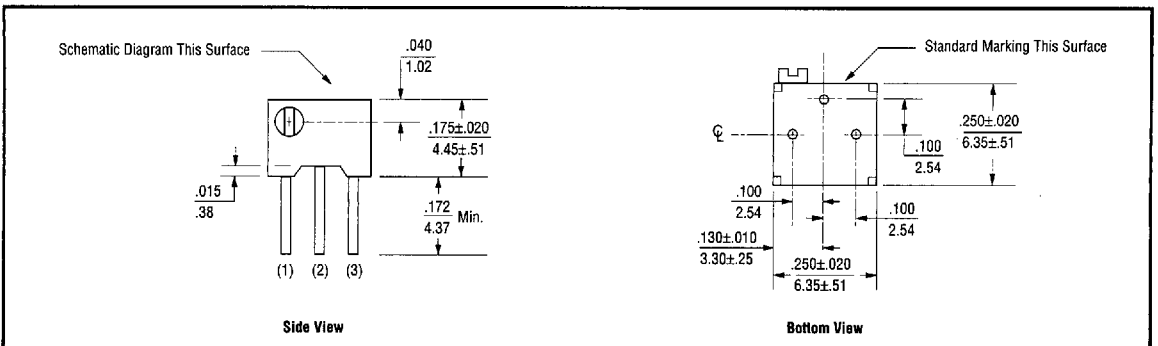
### TOP ADJUSTMENT - RJ26FW



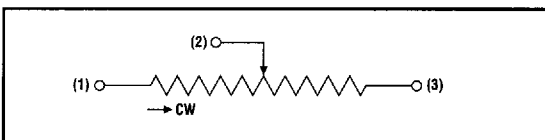
### SIDE ADJUSTMENT - RJ26FX



### SIDE ADJUSTMENT - RJ26FP



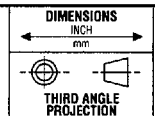
### CIRCUIT DIAGRAM



### NOTES

Metric equivalents, based on 1 inch = 25.4mm and are provided for general information only.

Tolerances unless otherwise specified:  
 Linear =  $\pm .005$  inches (.13mm)  
 Angular =  $\pm 2$  degrees



**STANDARD RESISTANCE VALUES**

Ohms	10	20	50	100	200	500	1,000	2,000	5,000	10,000	20,000	25,000	50,000	100,000	250,000	500,000	1,000,000
Code	100	200	500	101	201	501	102	202	502	103	203	253	503	104	254	504	105

**PACKAGING FOR MODEL RJ24****Standard:** Boxes

Capacity, Units = 100

**Option:** Tubes

All Units oriented with #1 pin to same side

Pin Style		P	W	X
Magazine: Width	=	0.57"	0.28"	0.28"
Height	=	0.66"	0.93"	0.93"
Length	=	20.9"	20.6"	24.4
Capacity, Units	=	100	100	100

**PACKAGING FOR MODEL RJ26****Standard:** Tubes

All Units oriented with #1 pin to same side

Pin Style		P,W	X
Magazine: Width	=	0.38"	0.38"
Height	=	0.62"	0.62"
Length	=	14.5"	16.9"
Capacity, Units	=	50	50