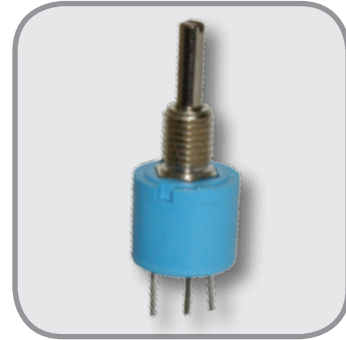


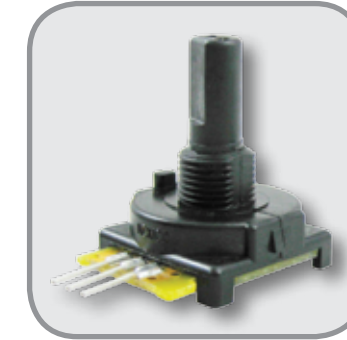
# Select Potentiometers and Position Sensors



## Potentiometers



## Position Sensors



Series	380	RV4	485	53C	385	392	RV6	640	600	510	HRS
<b>Description</b>	<ul style="list-style-type: none"> <li>• <b>380:</b> 2 W conductive plastic pot</li> <li>• <b>RV4:</b> Military version of 380</li> <li>• <b>485:</b> Custom version of 380</li> <li>• <b>53C:</b> Cost-effective version of 380</li> <li>• <b>385:</b> Custom version of 53C</li> </ul>					<ul style="list-style-type: none"> <li>• <b>392:</b> 0.5 W conductive plastic pot</li> <li>• <b>RV6:</b> Military version of 392</li> </ul>		thru-shaft pot	optical encoder	mechanical encoder	Hall-effect rotary position sensor
<b>Key features</b>	<ul style="list-style-type: none"> <li>• Cost-effective</li> <li>• Wide range of resistance values</li> <li>• Wide variety of tapers</li> </ul>					<ul style="list-style-type: none"> <li>• Wave solderable</li> <li>• PCB washable</li> <li>• Cost-effective</li> <li>• Wide range of resistance values</li> <li>• Small package size</li> </ul>		<ul style="list-style-type: none"> <li>• Thru-shaft configuration actuated by customer-provided shaft</li> <li>• Reinforced, low-profile housing</li> <li>• Dust sealed with splash- or moisture-sealed options</li> <li>• Long rotational life of &gt;1 M cycles</li> </ul>	<ul style="list-style-type: none"> <li>• Non-contact technology with minimum of 10 million rotations</li> <li>• Digital voltage output</li> <li>• TTL-compatible output</li> <li>• Wide operating temperature range</li> <li>• Choice of mounting terminations</li> </ul>	<ul style="list-style-type: none"> <li>• Up to 36 positions per rotation</li> <li>• Gray code digital voltage output</li> <li>• Wide operating temperature range</li> <li>• Mounting flexibility</li> </ul>	<ul style="list-style-type: none"> <li>• Solid state, non-contact operation</li> <li>• 10 M typ. cycle product life</li> <li>• Choice of termination options</li> <li>• Voltage output allows direct connection to the control system</li> <li>• Choice of anti-rotation locating pins</li> <li>• Rotary potentiometer package form factor</li> </ul>
<b>Potential applications</b>	<ul style="list-style-type: none"> <li>• Audio/visual equipment</li> <li>• Foot pedal controls</li> <li>• Machine controls</li> <li>• Welding equipment</li> <li>• Gear shifter</li> <li>• Joystick</li> <li>• Throttle position</li> </ul>					<ul style="list-style-type: none"> <li>• Audio/visual equipment</li> <li>• Hand-held equipment</li> <li>• Test and measurement equipment</li> <li>• Communications equipment</li> <li>• Thermostats</li> <li>• Lab equipment</li> <li>• Vehicle manual controls</li> </ul>		<ul style="list-style-type: none"> <li>• Vehicle manual controls</li> <li>• Pedals</li> <li>• Steering equipment</li> <li>• Audio/visual equipment dial control</li> <li>• Industrial vehicle attachment position</li> <li>• Robotic arm position</li> <li>• Value actuator position</li> <li>• Material handling equipment position</li> </ul>	<ul style="list-style-type: none"> <li>• Motor and flow control</li> <li>• Robotics</li> <li>• Computer peripherals</li> <li>• Welding equipment</li> <li>• Portable diagnostic equipment</li> <li>• Home respiratory equipment</li> <li>• Surgical equipment</li> <li>• Precision joysticks</li> </ul>	<ul style="list-style-type: none"> <li>• Audio/visual equipment</li> <li>• Smoke detectors</li> <li>• Irrigation controls</li> <li>• Oscilloscopes</li> <li>• Robotics</li> <li>• EKG and defibrillation machines</li> </ul>	<ul style="list-style-type: none"> <li>• Gear shifter, joystick, throttle position</li> <li>• Pedal position and hitch location</li> <li>• Bucket/loader position</li> <li>• Steering position</li> <li>• Auto-pilot/drive-by-wire feedback</li> <li>• Vehicle attachment position</li> <li>• Machine control joystick position</li> <li>• Robotic arm position</li> <li>• Valve actuator position</li> </ul>
<b>Shaft diameter, material, type</b>	6,35 mm [0.25 in] dia. nickel-plated brass (flatted, round, slotted, straight knurled, custom)					3,18 mm [0.125 in] dia. nickel-plated brass or thermoplastic (flatted, round, slotted, custom)		6,35 mm [0.25 in] dia. thru hole	6,35 mm [0.25 in] dia. stainless steel (round)	6,35 mm [0.25 in] dia. glass-reinforced thermoplastic (flatted)	9,5 mm [0.375 in] dia. stainless steel (flatted, round, slotted)
<b>Bushing size, material, type</b>	3/8-32 NEF-2A nickel-plated brass (standard, high torque, custom)					1/4-32 NEF-2A nickel-plated brass (metal panel seal: standard, split locking; metal no panel seal: standard, split locking; unthreaded; plastic standard, trimmer; custom)		n/a	3/8-32 NEF-2A nickel-plated brass (threaded)	3/8-32 UNEF-2A (threaded)	3/8-32 UNEF-2A (threaded) 6,35 mm [0.25 in] (unthreaded)
<b>Housing material</b>	stainless steel					thermoplastic		reinforced thermoplastic	thermoplastic	glass-reinforced thermoplastic	stainless steel
<b>Termination type</b>	solder lug with or without center tap, PC pin, fast-on, custom					solder hook, PC pin, custom		lead wires	PC type C-24, PC type B-66, cable with four-lead ribbon, cable with Berg connector	PC type B-110, PC type C-30	solder lug, flying wire leads, cable and connector

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