

Industrial Conductive Plastic and Custom, Single-Turn Models



FEATURES

- Long life: from 2 million to 30 million cycles
- Custom designs available:
 - Special electrical angles
 - Various shaft types
 - Outputs by flying leads and connectors
- Cost-effective component solutions
- Different models (sizes and shapes)

APPLICATIONS

- Servo control of industrial valves
- Various functions for fork-lift trucks and tractors
- Joysticks
- Wheel balancing equipment for cars

RESOURCES



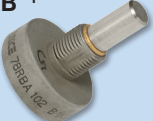







- For technical questions contact sferprecisionpot@vishay.com





ROTATIONAL TRANSDUCERS

Vishay Sfernice

Model	Electrical Travel (°)	High Accuracy (Linearity)	Ohmic Values	Starting Torque (N.cm)	Operating Life (Millions of Cycles)	Temperature Range (°C)	External Diameter (mm)	Options
157-1 ^{*1} 	340, ± 4	< ± 2 % to < ± 0.25 %	1 kΩ to 100 kΩ	0.20 max.	5	-55 to +125	22.2	Special electrical angles
357 ^{*1} 	340, ± 3	< ± 2 % to < ± 1 %	1 kΩ to 50 kΩ	0.4 max.	5	-55 to +125	22.2	Special electrical angles
78 PB/RB ^{*1} 	340, ± 5	< ± 2 % to < ± 0.35 %	1 kΩ to 50 kΩ	0.5 max.	5	-55 to +125	22.2	Special electrical angles
78 PS/RS ^{*2} 	340, ± 5	< ± 2 % to < ± 0.35 %	1 kΩ to 50 kΩ	0.5 max.	5	-55 to +125	22.2	Special electrical angles
157-2 ^{*2} 	340, ± 4	< ± 2 % to < ± 0.25 %	1 kΩ to 100 kΩ	0.2 max.	10	-55 to +125	22.2	Special electrical angles
50 CB ^{*1} 	330, ± 5	< ± 1 % to < ± 0.25 %	1 kΩ to 20 kΩ	< 0.5	20	-55 to +125	12.7	Special electrical angles
PP12SR 	340, ± 5	± 1% to ± 0.5%	1 kΩ to 4.7 kΩ	0.1	10	-55 to +125	12.7	Center tap
50 ES ^{*2} 	330, ± 5	< ± 1 % to < ± 0.25 %	1 kΩ to 20 kΩ	< 0.2	30	-55 to +125	12.7	Special electrical angles
78 CB ^{*1} 	340, ± 5	< ± 1 % to < ± 0.25 %	1 kΩ to 20 kΩ	< 0.5	20	-55 to +125	22.2	Special electrical angles
P22SB 	340, ± -3	± 1%	4.7 kΩ or 10 kΩ	0.5	5 M	-55 to +125	22.2	Special electrical angles

*1 Bushing Mount *2 Servo Mounting *3 Throttle Potentiometer



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Model	Electrical Travel (°)	High Accuracy (Linearity)	Ohmic Values	Starting Torque (N.cm)	Operating Life (Millions of Cycles)	Temperature Range (°C)	External Diameter (mm)	Options
78 CS *2 	340, ± 5	< ± 1 % to < ± 0.25 %	1 kΩ to 20 kΩ	< 0.5	20	-55 to +125	22.2	Special electrical angles
78 ES *2				< 0.2	30			
PP2SS 	340, ± 3	< ± 1% to < ± 0.5%	4.7 kΩ or 10 kΩ	0.5	10	-55 to +125	22.2	Center tap
PP2SR				0.1	20			
138 *1 	345, ± 4	< ± 0.5 % to < ± 0.25 %	1 kΩ to 50 kΩ	< 0.8	2	-55 to +125	33.3	Stops on request
156 CB *1 	350, ± 3	< ± 1 % to < ± 0.25 %	1 kΩ to 20 kΩ	< 0.5	20	-55 to +125	33.3	Special electrical angles
156 CS *2 	350, ± 3	< ± 1 % to < ± 0.25 %	1 kΩ to 20 kΩ	< 0.5	20	-55 to +125	33.3	Special electrical angles
156 ES *2				< 0.2	30			
PP36 	350, ± 3	± 1% to ± 0.5%	4.7 kΩ or 10 kΩ	0.25	20	-55 to +125	33.3	Special electrical angles
657 *1 	240, ± 4	< ± 2 %	1 kΩ to 100 kΩ	< 2.5	2	-40 to +125	17.5 x 16 x 12.7	Various bushing sizes
RMF 	340, ± 3 or 350, ± 2	< ± 1 % to < ± 0.05 %	1 kΩ to 20 kΩ	-	50	-30 to +85	-	Highly flexible design
PMR416 	250, ± 3	< ± 1.5 %	4 kΩ	1.5 to 7.5	5 M	-40 to +125	31.5 between fixing holes	Other types of levers
PMR610 	95, ± 1.5	< ± 1.5 %	2 x 4 kΩ	1.5	5 M	-40 to +125	31.5 between fixing holes	Other types of levers
PMR420				8.5				

*1 Bushing Mount

*2 Servo Mounting

*3 Throttle Potentiometer



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SEMICONDUCTORS

MOSFETs Segment

MOSFETs

- Low-Voltage TrenchFET® Power MOSFETs
- Medium-Voltage Power MOSFETs
- High-Voltage Planar MOSFETs
- High-Voltage Superjunction MOSFETs
- Automotive Grade MOSFETs

ICs

- VRPower® DrMOS Integrated Power Stages
- Power Management and Power Control ICs
- Smart Load Switches
- Analog Switches and Multiplexers

Diodes Segment

Rectifiers

- Schottky Rectifiers
- Ultra-Fast Recovery Rectifiers
- Standard and Fast Recovery Rectifiers
- High-Power Rectifiers / Diodes
- Bridge Rectifiers

Small-Signal Diodes

- Schottky and Switching Diodes
- Zener Diodes
- RF PIN Diodes

Protection Diodes

- TVS Diodes or TRANSZORB® (unidirectional, bidirectional)
- ESD Protection Diodes (including arrays)

Thyristors / SCRs

- Phase-Control Thyristors
- Fast Thyristors

IGBTs

- Field Stop Trench
- Punch-Through Trench

Power Modules

- Input Modules (diodes and thyristors)
- Output and Switching Modules (contain MOSFETs, IGBTs, and diodes)
- Custom Modules

Optoelectronic Components Segment

Infrared Emitters and Detectors

Optical Sensors

- Proximity
- Ambient Light
- Light Index (RGBW, UV, IR)
- Humidity
- Quadrant Sensors
- Transmissive
- Reflective

Infrared Remote Control Receivers

Optocouplers

- Phototransistor, Photodarlington
- Linear
- Phototriac
- High-Speed
- IGBT and MOSFET Driver

Solid-State Relays

LEDs and 7-Segment Displays

Infrared Data Transceiver Modules

Custom Products

PASSIVE COMPONENTS

Resistors and Inductors Segment

Film Resistors

- Metal Film Resistors
- Thin Film Resistors
- Thick Film Resistors
- Power Thick Film Resistors
- Metal Oxide Film Resistors
- Carbon Film Resistors

Wirewound Resistors

- Vitreous, Cemented, and Housed Resistors
- Braking and Neutral Grounding Resistors
- Custom Load Banks

Power Metal Strip® Resistors

Battery Management Shunts

Crowbar and Steel Blade Resistors

Thermo Fuses

Chip Fuses

Pyrotechnic Initiators / Igniters

Variable Resistors

- Cermet Variable Resistors
- Wirewound Variable Resistors
- Conductive Plastic Variable Resistors
- Contactless Potentiometers
- Hall Effect Position Sensors
- Precision Magnetic Encoders

Networks / Arrays

Non-Linear Resistors

- NTC Thermistors
- PTC Thermistors
- Thin Film RTDs
- Varistors

Magnetics

- Inductors
- Wireless Charging Coils
- Planar Devices
- Transformers
- Custom Magnetics

Connectors

Capacitors Segment

Tantalum Capacitors

- Molded Chip Tantalum Capacitors
- Molded Chip Polymer Tantalum Capacitors
- Coated Chip Tantalum Capacitors
- Solid Through-Hole Tantalum Capacitors
- Wet Tantalum Capacitors

Ceramic Capacitors

- Multilayer Chip Capacitors
- Disc Capacitors
- Multilayer Chip RF Capacitors
- Chip Antennas
- Thin Film Capacitors

Film Capacitors

Power Capacitors

Heavy-Current Capacitors

Aluminum Electrolytic Capacitors

ENYCAP™ Energy Storage Capacitors