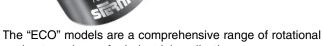
MECHANICAL SPECIF	CATIONS							
Mechanical Angle (MA)		360° continuous						
On Request: Stops	N	NA 340° ± 3°		350° ± 3°				
Mounting Type	Servo	Bushing	Se	Servo Bushing		Servo Bush		Bushing
Shaft Guiding	Ball bearings	Sleeve bearings	Ball bearings		eve rings	Ball bearings		eeve Irings
Shaft		Stainless steel						
Housing		Plastic moulding						
Termination		Turrets						
Wiper		Precious metal multi-finger contact						
Starting Torque (N.cm)	≤ 0.2	≤ 0.5	≤ 0.2	\leq (0.5	≤ 0.2	≤	0.5
Torque on Stops (N.cm)		50						
Weight (g)	5 ± 2	8 ± 2	13 ± 2	17	± 2	29 ± 2	34	± 2
Moment of Inertia (g cm ²)	≤ (≤ 0.5 ≤ 1 ≤ 2			≤2			

motion transducers for industrial applications.

All mechanical and electrical parameters can be adapted to meet your specifications.

	09				
MODEL 50 ES 50 CB 78 E	S 78 CS	78 CB	156 ES	156 CS	156 CB

ELECTRICAL SPECIFICAT	IONS					
Theoretical Electrical Angle (TEA)	Actual electrical angle (AEA) - 2°					
Independent Linearity (over TEA)	A ≤ ± 1 % (standard)		$B \le \pm 0.5 \%$ (special)		$C \le \pm 0.25 \%$ (special)	
Actual Electrical Angle (AEA)	$330^{\circ} \pm 5^{\circ}$ $340^{\circ} \pm 5^{\circ}$				$350^{\circ} \pm 5^{\circ}$	
Ohmic Values (R _T)	1 k Ω - 5 k Ω - 10 k Ω - on request other values					
Ohmic Value Tolerances at 20 °C	± 10 %	± 20 %	± 10 %	± 20 %	± 10 %	± 20 %
Output Smoothness	≤ 0.05 %					
Maximum Power Rating at 70 °C	0.2 W 0.3 W				0.5 W	
Wiper Current	Recommended: a few µA - 1 mA max. (continuous)					
Tap (Current or Voltage)	Ν	IA	1 (on request)			
Resistance Load on Wiper	Minimum 10 ³ x R _T					
End Voltage	≤ 0.2 %	≤ 0.5 %	≤ 0.2 %	≤ 0.5 %	≤ 0.2 %	\leq 0.5 %
Insulation Resistance	\geq 1000 MΩ, 500 V _{DC}					
Dielectric Strength	≥ 500 V _{BMS} , 50 Hz					



FEATURES

- Size 05 09 13 are available
- Long Life up to 30 million cycles
- Accuracy \pm 1 % down to \pm 0.25 %
- Bush or servo mounting types
- · Rear mounted terminals
- Following MIL-R-39023 and NFC 93-255 requirements

Conductive Plastic, Economic Series (ECO)







Series ECO

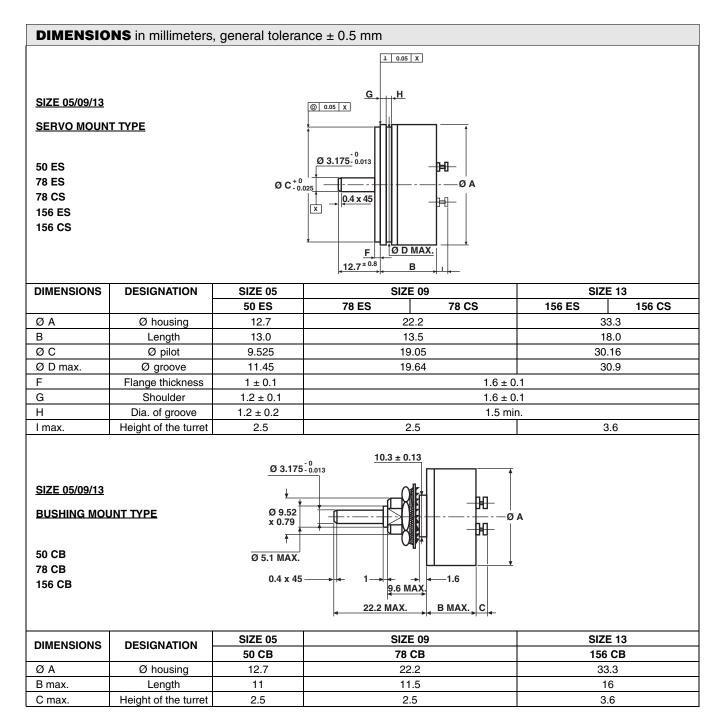
Vishay Sfernice

Vishay Sfernice

Precision Rotative Transducers, Conductive Plastic, Economic Series (ECO)



PERFORMANCE						
Life (10 ⁶ Cycles)	30 (on ES models)	20 (on CS and CB models)				
Temperature Range	- 55 °C to + 125 °C					
Climatic Category	55/125/04					
Speed Rotation (RPM)	600 (on ES models) 150 (on CS and CB models					
Sine Vibration on 3 Axes	1.5 mm or 20 g from 10 Hz to 2000 Hz					
Mechanical Shocks on 3 Axes	50 g - 11 ms - half sine					

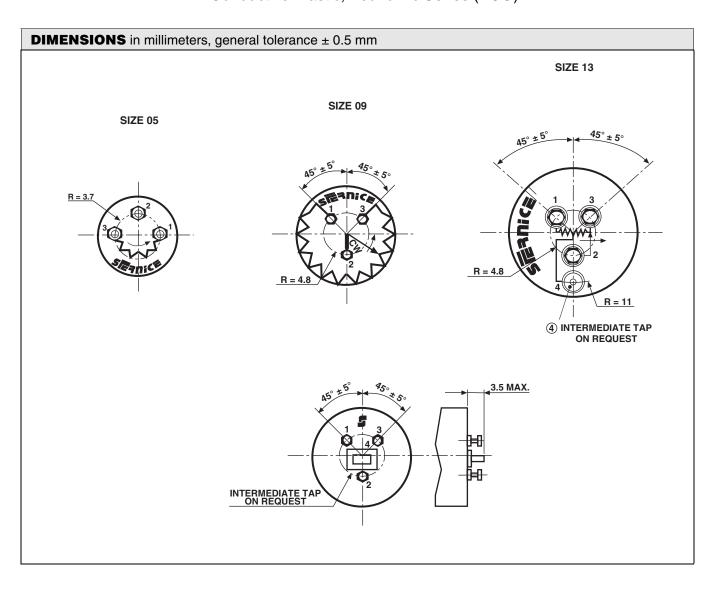




Precision Rotative Transducers, Conductive Plastic, Economic Series (ECO)

Series ECO

Vishay Sfernice



ORDERING INFORMATION/DESCRIPTION							
ECO	78	E	S	Α	т	103	e4
SERIES	MODEL	TYPE	FIXATION	LINEARITY	TAP	OHMIC VALUE	LEAD
		E = Ball bearings C = Sleeve bearings	S: Servo B: Bushing	Code A: ± 1 % B: ± 0.5 % C: ± 0.25 %	On request T: Voltage U: Current position to be specified	First 2 digits are significant numbers 3rd digit indicates number of zeros	Finish

SAP PART NUMBERING GUIDELINES							
ECO	78CB	С	502				
SERIES	MODEL	LINEARITY	OHMIC VALUE				



Vishay

Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.