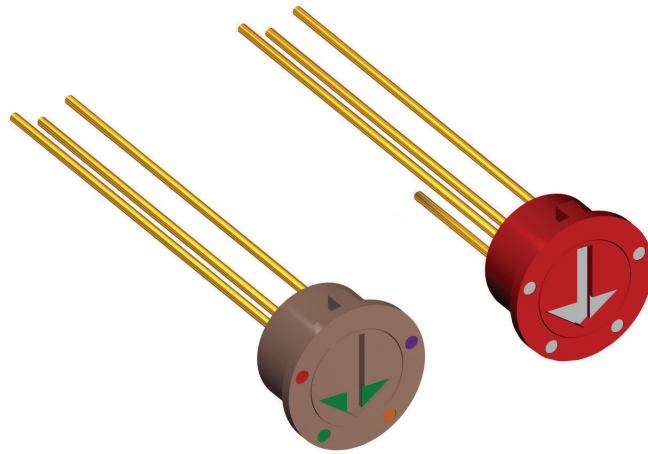
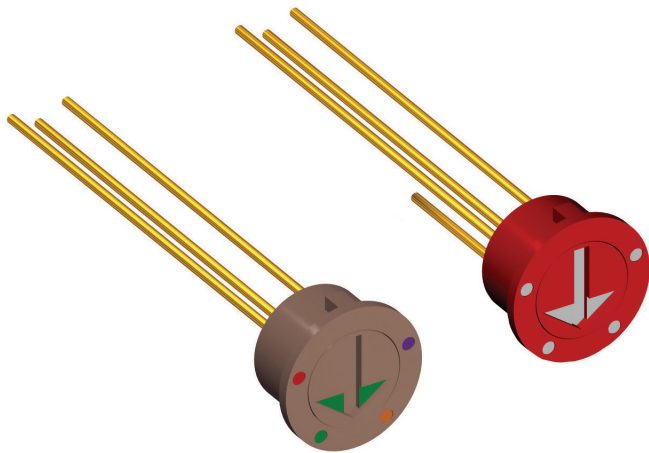




Trimmer Model PJ 16



Features

- PJ 16 with arrow slot
- Both models with fixation key
- Optional color dot coding
- Different plastic colors available
- Accurate tapers. Linear, logarithmic, double logarithmic and custom-made
- Customer specified electrical resistance values and tolerances

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Sonion reserves the right to make changes at any time to improve reliability, function or design, in order to provide the best product possible.

1. History Revision

Revision Number/Date	Change from last revision
06 / Feb. 03	History Revision added. Rotor Style PJ 16 no. 02 is updated.
07 / Apr. 08	Terminal gold plating added. Storage humidity added. Operational temperature and humidity removed. New data sheet design. New lay-out.
MT1029.A (07/08)	Minimum resistance value on lineair tapers increased to 200 Ω .
008/JUL-14-2009	No technical updates
009/2014-01-10	Updated design and new RoHS logo directive (2011/65/EU)
010/2014-02-28	Discontinue PJ15
011/219-09-18	Change of storage temperature and humidity (CR3860)

2. Mechanical Specifications

Rotational angle, mechanical	220° ±3°
Resistance curve angle	190°
End stop torque	Min. 100 cNcm
Rotational torque	Max. 10 cNcm, typical 4-8 cNcm

Lifetime	Min. 5,000 cycles
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3. Electrical Specifications

Resistance value	
Linear	200 Ω to 1 MΩ
Logarithmic	500 Ω to 600 kΩ
Double logarithmic	2 kΩ to 500 kΩ
Resistance value tolerance	±20% (-20% to +30% for values ≤ 1 kΩ)
Resistance taper	See 'Tapers Data Sheet'
Wiper contact resistance	Typ. better than 20 dB rel. R
Potentiometer max. load	1 mW

4. Material Specifications

All materials comply with RoHS directive (2011/65/EU)

Terminals	AgCu3, gold flash plated
Other metal parts	CuBe2, silver plated
Housing	PA 6.6, glass reinforced
Carbon track base	Glass epoxy composite
Resistance material	Carbon/silver composite

Lubricant, glue / seal, and paint specifications are proprietary information.

5. Environmental Conditions

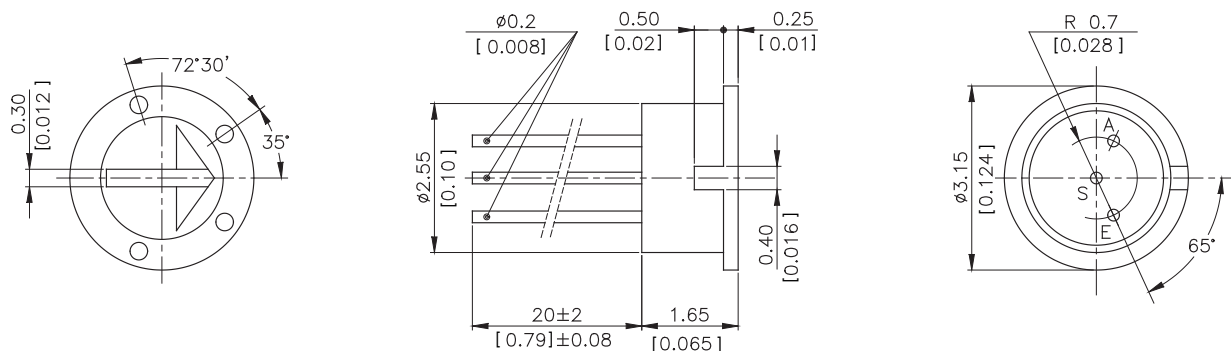
Storage temperature	25°C
Storage humidity	60% RH
Purpose is to protect from high humidity and keep at driest condition as possible	

6. Recommended Process Parameters

Gluing	
Types of glue	Cyanoacrylates (non-blooming) , i.e. Loctite 401, 408, 460 and Sicomet 50, 63, 77 Non-blooming types must be used to ensure that residuals from the curing process do not degrade the component.
Soldering	
Soldering temperature and time	300°C [572°F] for 3 s or 350°C [662°F] for 1 s
Soldering distance	Min. 0.5 mm [0.02"] from housing To prevent damage to the carbon taper as a result of the soldering process, the knob must be turned either fully CW or CCW. Exceeding temperature, time and distance recommendations may damage the component. Mechanical stress on soldering terminals must be avoided during soldering.
Cleaning	
Cleaning solvents	Aqua wash (Alpha 2110), Benzine Ultrasonic cleaning must be avoided as it may remove the lubricant inside the component.

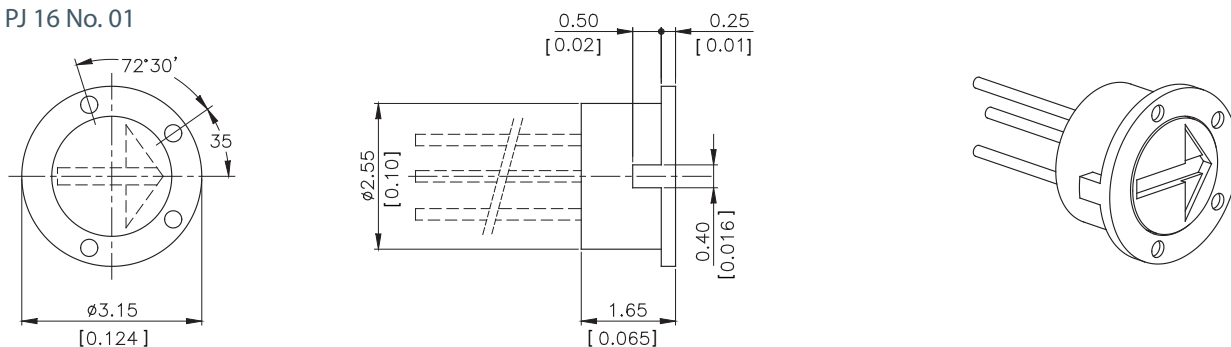
7. Mechanical Dimensions

PJ 16



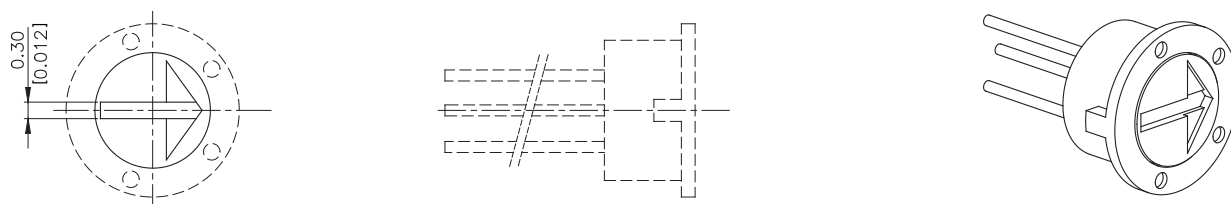
8. Housing Styles

PJ 16 No. 01

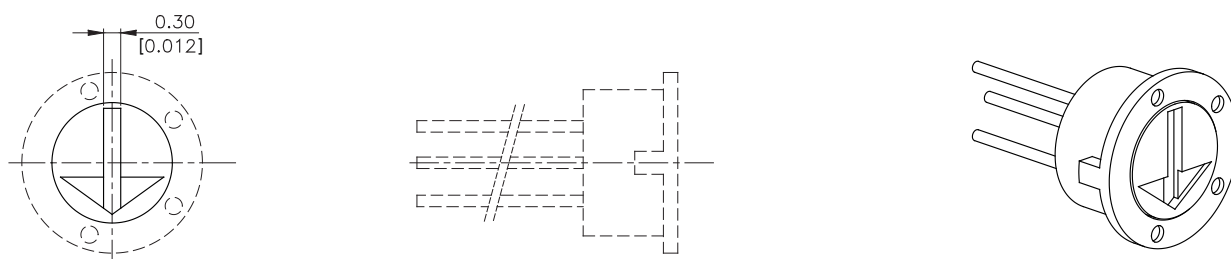


9. Rotor Styles

PJ 16 No. 01



PJ 16 No. 02



Note:

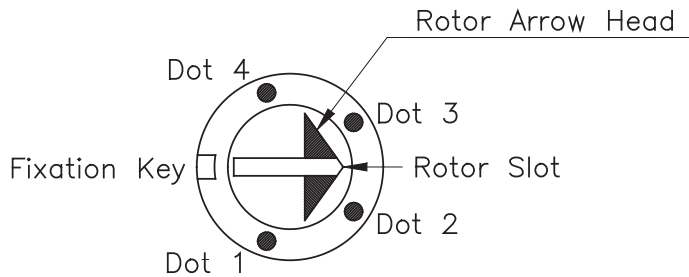
The standard measurement tolerance on the drawings is ± 0.05 mm/[0.002"]. Tolerances which differ from this value will be indicated on the drawings.

10. Plastic Colors

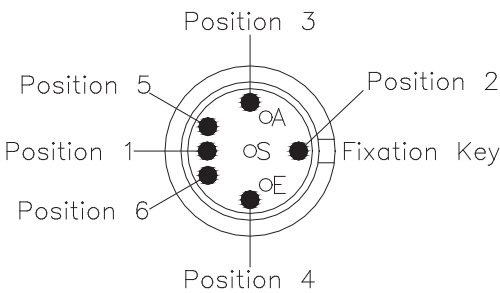
Please refer to the series 100 included in the Sonion 'Plastic Color Assortment' binder

11. Color Coding

Housing and Rotor Color Coding



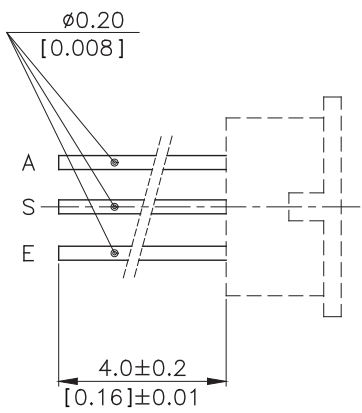
Bottom Color Coding



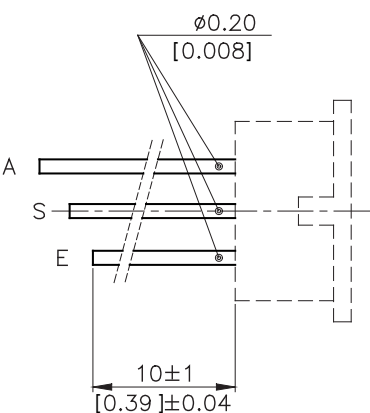
Please refer to colors for coding included in the Sonion 'Plastic Color Assortment' binder

12. Terminal Length

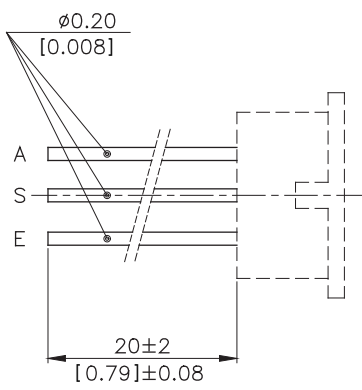
4 mm



10 mm stepped cut



20 mm



13. Product Specification Form

Name

Company

Customer Part No.

Parameters	Look at Page	Enter your choices	Guidelines
Model	2		Please enter PJ 16
Housing Styles	6		
Rotor Styles	6		
Plastic Colors	7		Please refer to the series 100 included in the Sonion 'Plastic Color Assortment' binder
Color Coding	7		Rotor Arrow Head (PJ 16)
		Dot 1	Housing Color Coding
		Dot 2	Please refer to colors for coding included in the Sonion 'Plastic Color Assortment' binder
		Dot 3	
		Dot 4	
		1	Bottom Color Coding
		2	Please refer to colors for coding included in the Sonion 'Plastic Color Assortment' binder
		3	
		4	
		5	
		6	
Terminal Length	8		Please enter terminal length
Resistance Value			Please see 'Electrical Specifications' and Tapers Data Sheet
Resistance Taper			Please see 'Electrical Specifications' and Tapers Data Sheet