RJ13S 시리즈 - single turn - 상품코드 : 020300128



*트리머 가변저항기
*엘리먼트 유형 : Cermet
*저항값 : 50Ω ~ 1MΩ
*턴 수 : 싱글턴 (230 º)

제품 상세 정보 (Product Features)

■ Single - Turn / Cermet / Industrial / Sealed
■ Miniature package
■ Rotor designed for automatic machine adjust interface
■ Withstands harsh environments and immersion cleaning processes
■ Available on tape and reel packaging
■ RoHS compliant* version available

"추가제품옵션"을 통해서 "샘플&견적요청"가능합니다.

※ 유의사항

상기 제품에 첨부된 데이터시트는 참고용입니다.
자세한 데이터시트를 원하실 때에는 당사에 문의 바랍니다.

핵심 정보 (Key information)

저항	50Ω~ 1MΩ
턴 수	230 º
Power Rating	0.75W at 70 º
Power Rating	0 W at 120 º
Resistance Tolerance	±10 %

기술데이터

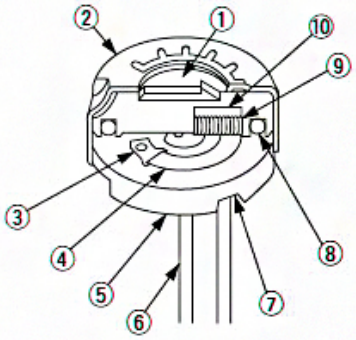
TEL: 02 - 716 - 6737~8 FAX: 02 - 701 - 8424 E - mail: webmaster@dongyangele.co.kr www.dongyangele.co.kr

Specifications are subject to change without notice. Specifications in this catalog are just for reference. The detail specification and drawing sheets will be provided upon request. Copyright. 2013 DONGYANG Electronic Inc. All rights reserved

Technical Data	
Resistive Element	Cermet
Adjustment Travel	Single - Turn: 230 °
Resistance Range	10Ω~200MΩ
Resistance Tolerance	±10% std
Power Rating	0.75 W at 70 ° C
Power Rating	0 W at + 125 ° C
Temperatuer Range	- 55 ° C ~ 125 ° C

Specifications

INTERNAL STRUCTURE



	Part name	Material	Flammability
①	Rotor	PBT(Polybutyleneterephthalate)	UL-94HB
②	Cover	Stainless steel	—
③	Electrode	Ag-Pd cermet	
④	Resistive element	RuO_2 cermet	
⑤	Base element	Ceramic	
⑥	Terminal pin	Nickel, Gold-plated	
⑦	Adhesive	Epoxy	
⑧	"O" ring	Silicone rubber	UL-94HB
⑨	Wiper	Multi metal alloy	—
⑩	Rubber cushion	Silicone rubber	

Internal structure

TEL: 02 - 716 - 6737~8 FAX: 02 - 701 - 8424 E - mail: webmaster@dongyangele.co.kr www.dongyangele.co.kr

Specifications are subject to change without notice. Specifications in this catalog are just for reference. The detail specification and drawing sheets will be provided upon request. Copyright. 2013 DONGYANG Electronic Inc. All rights reserved

ELECTRICAL CHARACTERISTICS

Nominal resistance range	10 Ω ~ 5 MΩ
Resistance tolerance	± 10 %
Power ratings	0.75 W (70 °C) 0 W (120 °C)
Resistance law	Linear law
Maximum input voltage	DC300 V or power rating, whichever is smaller
Maximum wiper current	100 mA or power rating, whichever is smaller
Effective electrical angle	230 ° (1 turn)
End resistance	1 % or 2 Ω, whichever is greater
C.R.V.	1 % or 3 Ω, whichever is greater
Operating temp. range	–55 ~ 120 °C
Temp. coefficient	10 Ω, 20 Ω, 5 MΩ : ± 250 10^{-6}/°C maximum 50 Ω ~ 2 MΩ : ± 100 10^{-6}/°C maximum
Insulation resistance	1000 MΩ minimum (DC500 V)
Dielectric strength	AC900 V, 60 s
Net weight	Approx. 1.90 g (RJ-13P) Approx. 4.50 g (RJ-13B) Approx. 2.15 g (RJ-13PR) Approx. 2.50 g (RJ-13S) Approx. 2.78 g (RJ-13SR)

Electrical characteristics

TEL: 02 - 716 - 6737~8 FAX: 02 - 701 - 8424 E - mail: webmaster@dongyangele.co.kr www.dongyangele.co.kr

Specifications are subject to change without notice. Specifications in this catalog are just for reference. The detail specification and drawing sheets will be provided upon request. Copyright. 2013 DONGYANG Electronic Inc. All rights reserved

MECHANICAL CHARACTERISTICS

Mechanical angle	270 ° (1 turn)
Operating torque	3 ~ 35 mN·m {30.6~357 gf·cm}
Stop strength	100 mN·m {1.02 kgf·cm}
Rotational life	200 cycles 10 Ω ~ 200 Ω [Δ R/R ≦ ± (0.5 Ω +3 %)] 500 Ω ~ 5 MΩ [Δ R/R ≦ ± (0.5 Ω +2 %)]
Terminal to strength	20 N {2.04 kgf} minimum (Tensile strength)
Thrust to rotor	10 N {1.02 kgf} minimum
Solderability	245 ± 3 °C, 2 ~ 3 s

{ } : Reference only

Mechanical characteristics

ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions	Specifications
Thermal shock	−65 ~ 125 °C (0.5 h), 5 cycles	[Δ R/R ≦ 1 %] [S.S. ≦ 1 %]
Humidity	−10 ~ 65 °C (80 ~ 98 %), 10 cycles, 240 h	[Δ R/R ≦ 1 %]
Shock	981 m/s², 6 ms 6 directions for 3 times each	[Δ R/R ≦ 1 %] [S.S. ≦ 1 %]
Vibration	Amplitude 1.52 mm or Acceleration 196 m/s², 10 ~ 2000 Hz, 3 directions, 12 times each	
Load life	70 °C, 0.75 W, 1000 h	[Δ R/R ≦ 2 %] [S.S. ≦ 1 %]
Low temp. operation	−55 °C, 2 h	[Δ R/R ≦ 1 %] [S.S. ≦ 2 %]
High temp. exposure	120 °C, 250 h	[Δ R/R ≦ 2 %] [S.S. ≦ 2 %]
Immersion seal	85 °C, 60 s	No leaks (No continuous bubbles)
Soldering heat	Flow soldering : 260 ± 3 °C, 5 ~ 6 s, two times maximum	[Δ R/R ≦ 1 %]
	Manual soldering : 380 ± 10 °C, 3 ~ 4 s	

Δ R/R : Change in total resistance
S.S. : Setting stability

Environmental characteristics

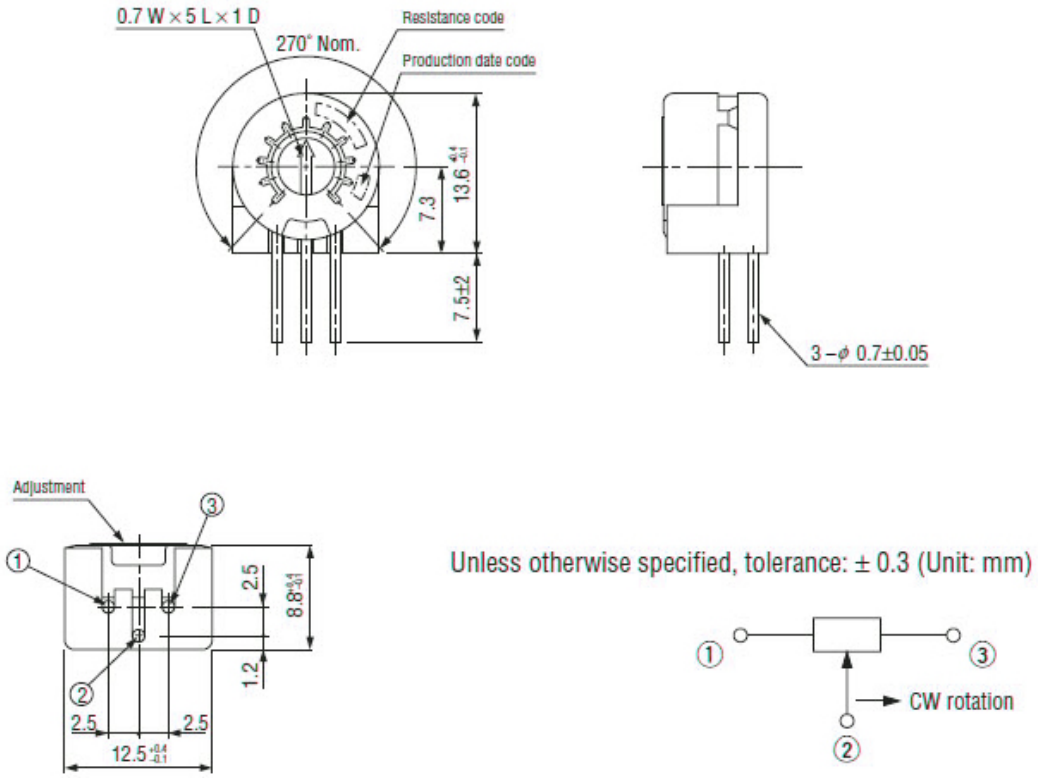
TEL: 02 - 716 - 6737~8 FAX: 02 - 701 - 8424 E - mail: webmaster@dongyangele.co.kr www.dongyangele.co.kr

Specifications are subject to change without notice. Specifications in this catalog are just for reference. The detail specification and drawing sheets will be provided upon request. Copyright. 2013 DONGYANG Electronic Inc. All rights reserved

Drawing

OUTLINE DIMENSIONS

RJ-13S
Side adjustment



Dimension

TEL: 02 - 716 - 6737~8 FAX: 02 - 701 - 8424 E - mail: webmaster@dongyangele.co.kr www.dongyangele.co.kr

Specifications are subject to change without notice. Specifications in this catalog are just for reference. The detail specification and drawing sheets will be provided upon request. Copyright. 2013 DONGYANG Electronic Inc. All rights reserved