






JSEN Electronic Technology Co., Ltd.  
潔聖電子科技有限公司  
广东恺圣电子科技有限公司

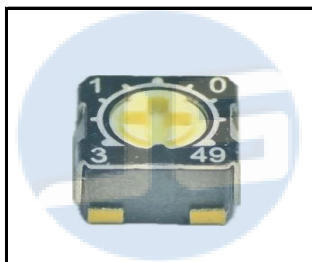
## PRODUCT SPECIFICATION

### JS-32 SMD Sealed Type Single-Turn Trimmers

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JS32 Series SMD Sealed Type Single-Turn Trimmers

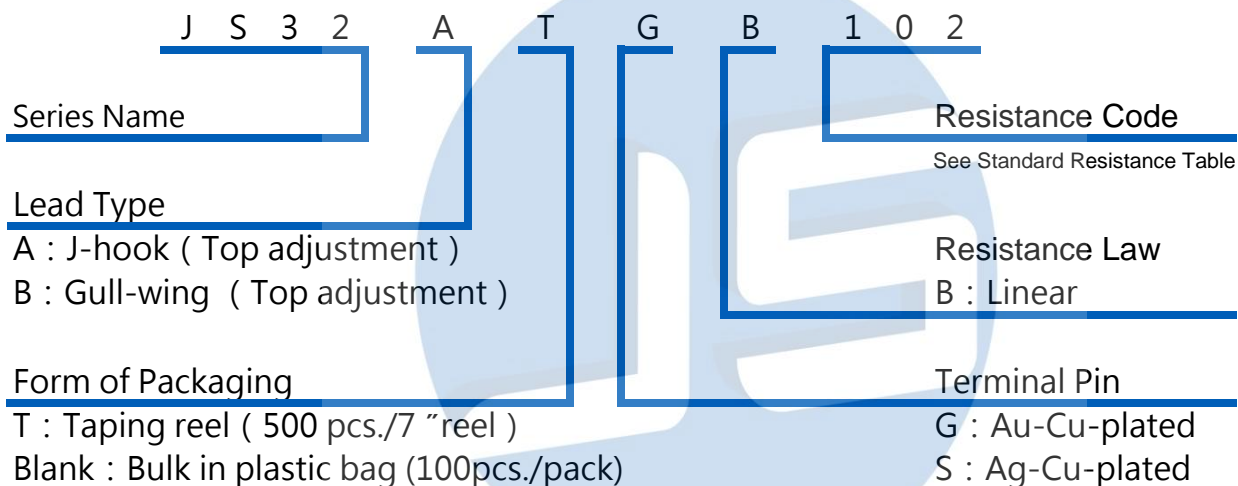




### Features

- Surface Mount 3mm Square/Single-turn/Cermet/Sealed
- Design for reflow, manual soldering
- Available in J-hook, Gull-wing styles
- RoHS compliant and Halogen free correspondence
- Resin materials are UL Recognized 94V-0 or 94V-1 equivalent

## PART NUMBER DESIGNATION



Please refer to the LIST OF PART NUMBERS when placing orders.

### List of Part Numbers

Adjustment position	Shape of terminal	Form of packaging	
		Taping reel	Plastic Bag
Top Adjustment	A (J-hook)	JS32ATGBXXX	JS32AGBXXX
	A (J-hook)	JS32ATSBXXX	JS32ASBXXX
Top Adjustment	B (Gull-wing)	JS32BTGBXXX	JS32BGBXXX
	B (Gull-wing)	JS32BTSBXXX	JS32BSBXXX

- ※ The part numbers on the top are all available with the respective combination of [Standard Resistance Table].
- ※ Special resistances are manufactured upon receipt of order basis.
- ※ Taping specification is not sold separately and must be purchased in reel units.

### Standard Resistance Table

Resistance (ohms)	Resistance Code
100	101
200	201
500	501
1000(1K)	102
2000(2K)	202
5000(5K)	502
10000(10K)	103
20000(20K)	203
50000(50K)	503
100000(100K)	104

## ◆ ELECTRICAL CHARACTERISTICS

Nominal resistance range	100Ω~2MΩ
Resistance tolerance	±20%
End resistance	1% or 3Ω max. (whichever is greater)
Contact Resistance Variation	3% or 3Ω max. (whichever is greater)
Power ratings	0.125 W (70 °C) 0 W (125 °C)
Resistance law	Linear law (B)
Max. input voltage	DC 200V or power rating, (whichever is smaller)
Operating temp. range	55 ~ 125 °C
Effective electrical angle	220°±10°
Temp. coefficient	1KΩ ~100KΩ :±150ppm / °C Other value : ±250ppm / °C
Insulation resistance	1000 MΩ min. (DC500 V)
Dielectric Strength	AC500 V, 60 s

## ◆ MECHANICAL CHARACTERISTICS

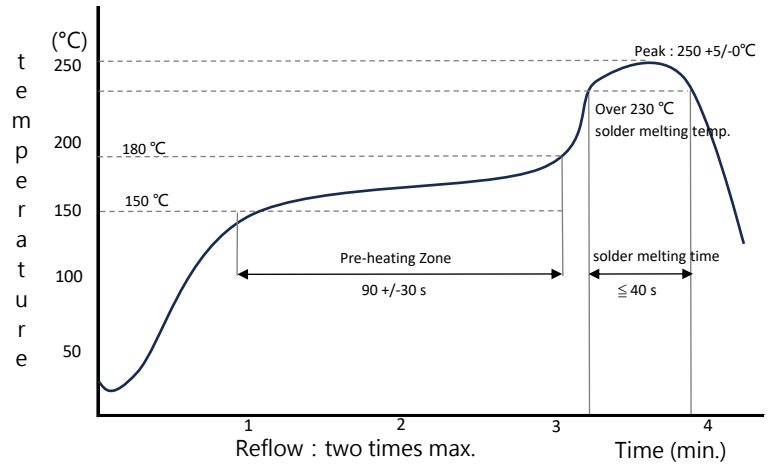
Mechanical angle	250°±10°
Operating torque	5 mN·m [51 gf·cm] max.
Stop strength	7.8 mN·m [80 gf·cm] min.
Push strength to rotor	14.7 N [1.5 kgf] min.
Weight	0.06g max.

[ ] : Reference only

## ◆ RoHS & Halogen-free

- ※ Products JS-32 comply with RoHS Directive 2002/95/EC  
Jan. 27, 2003 and RoHS Recast 2011/65/EU June 8, 2011.
- ※ Products JS-32 comply with Halogen-free as followings
  - (a) the Bromine(Br) content is 900ppm or less;
  - (b) the Chlorine(Cl) content is 900ppm or less;
  - (c) the total Bromine(Br) and Chlorine(Cl) content is 1500ppm or less.

Reflow profile for soldering heat evaluation



- ※ Conform the recommended temperature profile.
- ※ For reflow soldering condition setting, please make sure to conduct verification by actual equipment.
- ※ Please make an allowance for setting condition to avoid any damages to the function of the components.

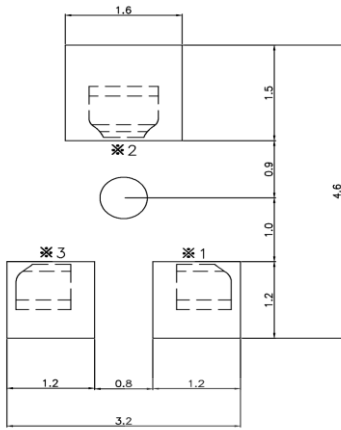
## ◆ ENVIRONMENTAL CHARACTERISTICS

Test item	Test conditions	Specifications
Soldering heat	Manual soldering : 350 ± 10 °C, 3 ~ 4 s Reflow : Peak temperature 255 °C ( Refer to the profile above )	[ Δ R/R ≤ 1 % ]
Rotational life	100 cycles	ΔR / R ≤ ±5%
Thermal shock	- 55 ~ 125 °C (0.5 h), 5 cycles	ΔR / R ≤ ±3%
Humidity	-10 ~ 65 °C (Relative humidity 85 ~ 95 %), 10 cycles, 240 h	ΔR / R ≤ ± 3 %
Shock	981 m/s <sup>2</sup> , 6 ms 6 directions for 3 times each	ΔR / R ≤ ±2%
Vibration	Amplitude 1.52 mm or Acceleration 196 m/s <sup>2</sup> , 10 ~ 2000 Hz, 3 directions, 12 times each	ΔR / R ≤ ±2%
Load life	70 °C, 0.125 W, 1000 h	ΔR / R ≤ ± 3 %
Low temperature exposure	-55 °C, 2 h	ΔR / R ≤ ± 3 %
High temperature exposure	125 °C, 250 h	ΔR / R ≤ ± 3 %
Seal test	85 °C hot water, 60 s	3 bubbles max.

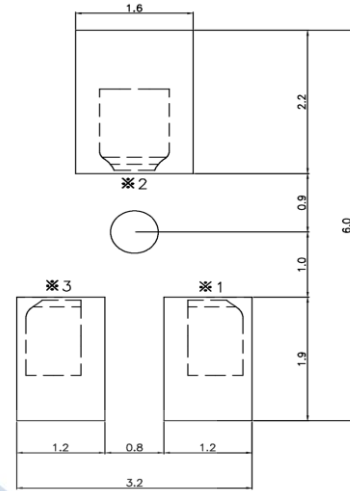
R/R : Change in total resistance; S.S. : Setting stability

## ◆ RECOMMENDED P.C.B. PAD OUTLINE DIMENSIONS

### ● JS32A



### ● JS32B

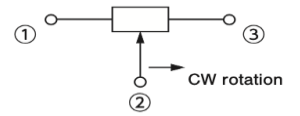
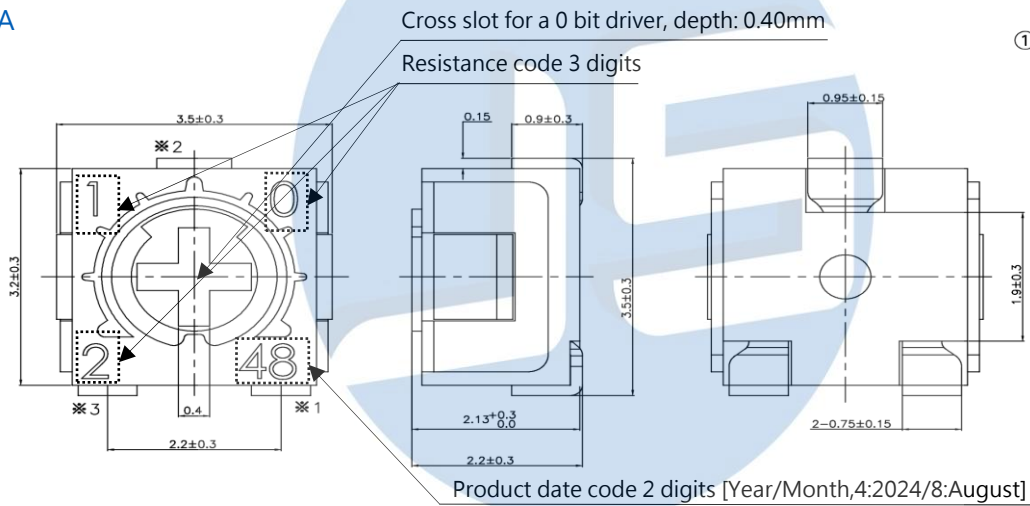


(Unit : mm)

For reflow soldering only

## ◆ OUTLINE DIMENSIONS

### ● JS32A



### ● JS32B

