

Surface Mount Trimmer Potentiometer (Metal-glaze Type) TMC Series

FEATURES

- Space Saving Size
- Easily adjusts with standard screwdriver.
- Metal-glaze resistance element gives excellent stability and protection against environmental factors.
- Can be mounted to a circuit board with adhesive.
- Designed for reflow soldering.
- Supplied in 8mm tape for automatic assembly equipment.
- Conform RoHS

APPLICATIONS

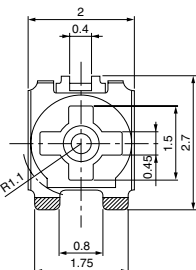
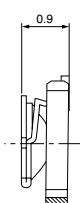
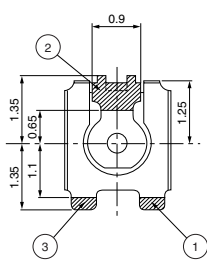
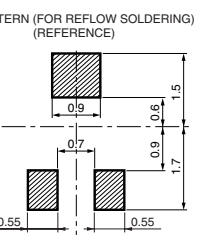
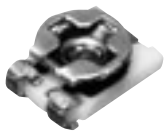
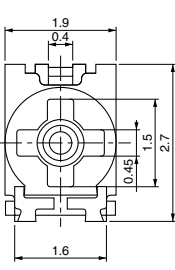
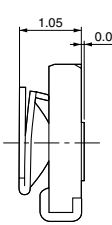
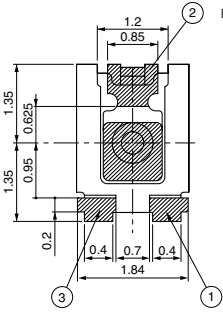
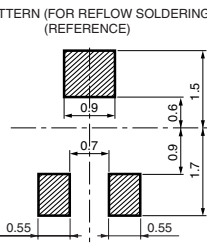
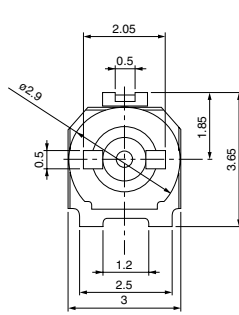
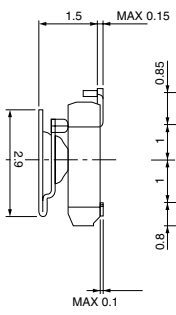
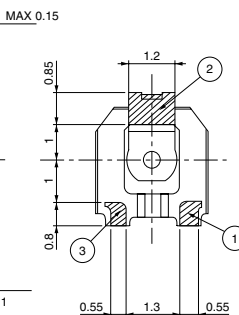
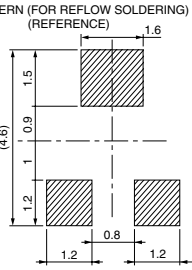
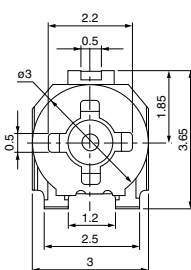
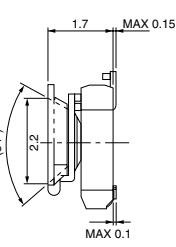
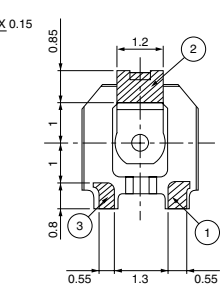
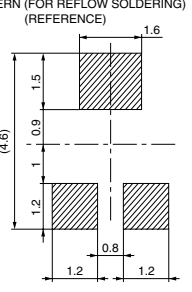
CAMERA built-in VCR, 8mm VCR, VCR camera, still camera, headphone stereos, LCD television, disk drive, bar code equipments, radar detectors, hand held equipments.

特 長

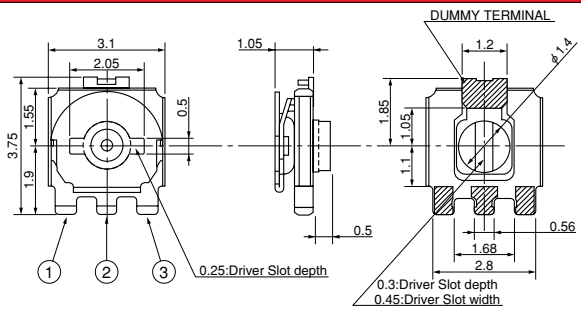
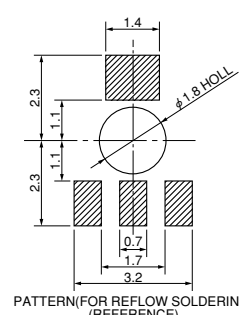
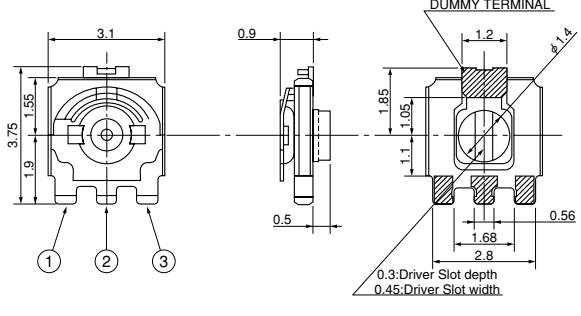
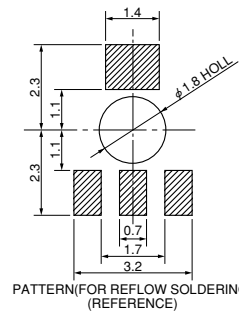
- 小型でしかも薄型です。
- 素子には、メタルグレーズ抵抗体を使用していますので、安定性、耐候性に優れています。
- リフローはんだ付けに対応。
- RoHS適合品です。

用 途

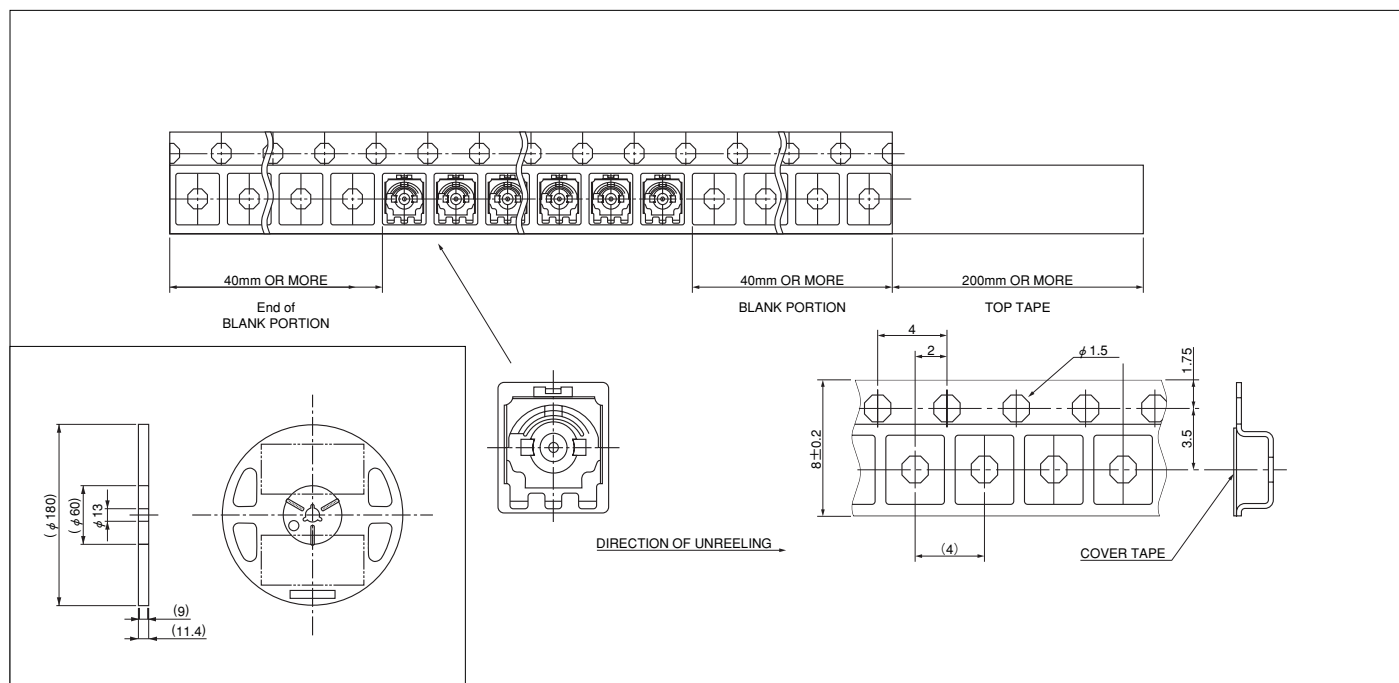
カメラ一体型VTR、8mmVTRカメラ、スチールカメラ、ヘッドホンステレオ、液晶テレビ、フロッピーディスクドライブ装置、その他高密度実装が要求される民生・産業用機器。

Model	External Dimensions	Unit:mm
TMC2K2J (for automatic adjustment)	Example of Order Number : TMC2K2J-0B10K-TR  ① 3000pcs/Reel    PATTERN (FOR REFLOW SOLDERING) (REFERENCE) 	
TMC2KJ (for automatic adjustment)	Example of Order Number : TMC2KJ-0B10K-TR  ② 3000pcs/Reel    PATTERN (FOR REFLOW SOLDERING) (REFERENCE) 	
TMC3K	Example of Order Number : TMC3K-0B10K-TR  ③ 2000pcs/Reel    PATTERN (FOR REFLOW SOLDERING) (REFERENCE) 	
TMC3KJ (for automatic adjustment)	Example of Order Number : TMC3KJ-0B10K-TR  ④ 2000pcs/Reel    PATTERN (FOR REFLOW SOLDERING) (REFERENCE) 	

- Specifications in this catalog are presented basically for informative purposes.
We request the exchange of official approval drawings before placing order.
- 当カタログは参考仕様ですので、ご使用にあたっては正式納入仕様書の取り交わしをお願いします。

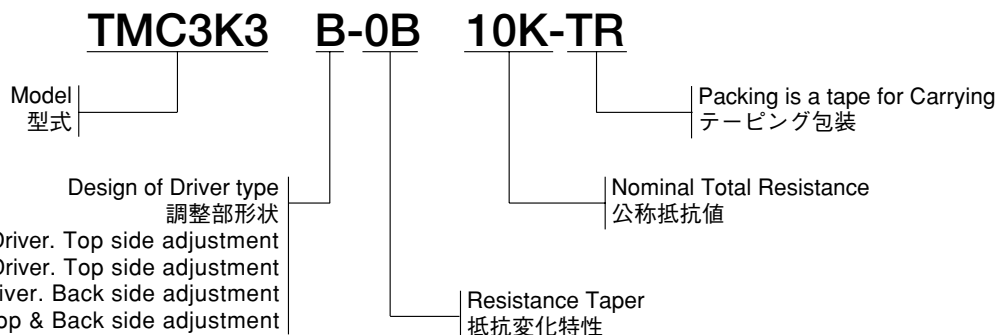
Model	External Dimensions	Unit:mm
TMC3K3B (Top & back side adjustment)	Example of Order Number : TMC3K3B-0B10K-TR	
 ⑤ 2000pcs/Reel 	  PATTERN(FOR REFLOW SOLDERING) (REFERENCE)	
TMC3K3R (Back side adjustment)	Example of Order Number : TMC3K3R-0B10K-TR	
 ⑥ 2000pcs/Reel 	  PATTERN(FOR REFLOW SOLDERING) (REFERENCE)	

REEL DIMENSION



Example of indicating Order Number

注文番号の記載例

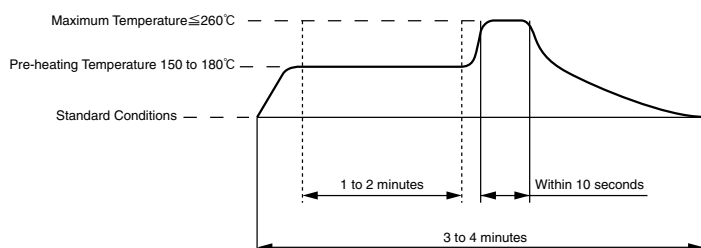


SPECIFICATIONS

	① TMC2K2J	② TMC2KJ	③ TMC3K	④ TMC3KJ	⑤ TMC3K3B	⑧ TMC3K3R
Operating Temperature Range 使用温度範囲	-40 to 100℃		-55 to 125℃			
Rated Power 定格電力	0.1W at 70℃					
Maximum Rated Voltage 最高使用電圧	AC20V, DC20V					
Nominal Total Resistance 公称抵抗値 (E-3 Series)	220Ω, 470Ω, 1kΩ, 2.2kΩ, 4.7kΩ, 10kΩ, 22kΩ, 47kΩ, 100kΩ, 220kΩ, 470kΩ, 1MΩ, 2.2MΩ	100Ω, 220Ω, 470Ω, 1kΩ, 2.2kΩ, 4.7kΩ, 10kΩ, 22kΩ, 47kΩ, 100kΩ, 220kΩ, 470kΩ, 1MΩ, 2.2MΩ				
Total Resistance Tolerance 全抵抗値許容差	Within ±30% of the nominal total resistance	Within ±25% of the nominal total resistance	Within ±25% of the nominal total resistance			
Resistance Taper 抵抗変化特性	0B:Linner Taper					
Resistance Temperature Coefficient 抵抗温度係数	Within ±250ppm/℃					
Total Rotational Angle 全回転角度	Endless (effective rotational angle 260±20°)		Endless (effective rotational angle 250±20°)			
Rotational Torque 回転トルク	0.5 to 15mN・m		1 to 20mN・m			
Endurance (Sliding) 耐久性 (しゅう動)	10cycles		20cycles (10cycles at 100Ω)		10cycles	
Weight at 1 pcs 重さ (1個)	11mg	14mg	37mg	40mg	34mg	30mg
Weight at 1 Reel 重さ (1リール)	100.8g	106.0g	137.0g	141.0g		

REFLOW SOLDERING REQUIREMENTS

Refer to the figure below for profile of reflow soldering.



Note1. Manual Soldering:

In case of soldering by a solder iron, it shall be finished within 3 seconds and the temperature of the tip of the soldering iron shall be 350°C max.

Note2. Flux Rinsing:

After reflow soldering operation, part may be used without rinsing, if flux is well controled. In case flux rinsing is done, flux shall be removed sufficiently.

注1) 手付けはんだ

端子のはんだ付け作業を、手はんだで実施する場合は、はんだコテ先温度、350°C (20Wコテ)、3秒以下で手際よくお済ませ下さい。

注2) フラックス洗浄

本品は、リフローはんだ付け後、洗浄なしでも使用できます。ただし、フラックスあがりには十分ご注意ください。また、洗浄する場合には、十分フラックスを除去してください。

Metal-glaze Trimmer Potentiometers

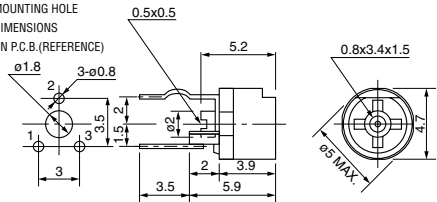
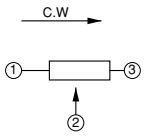
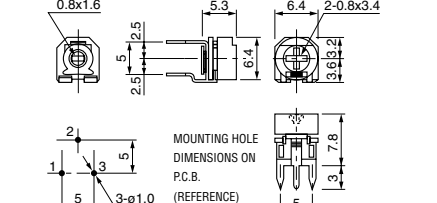
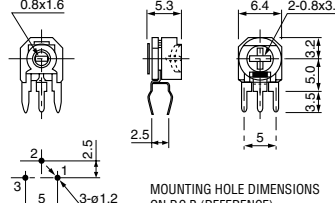
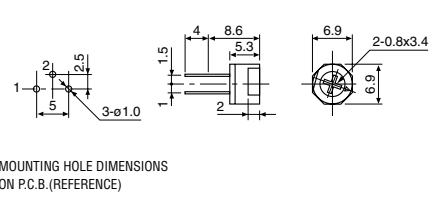
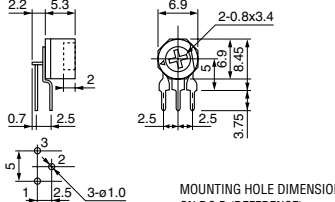
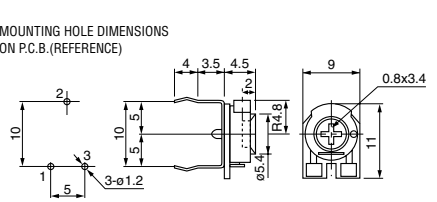
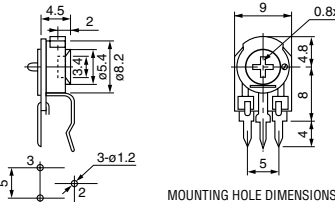
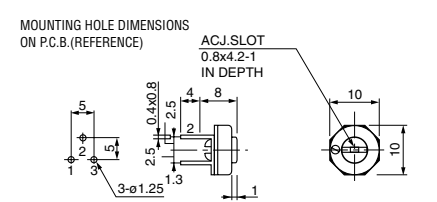
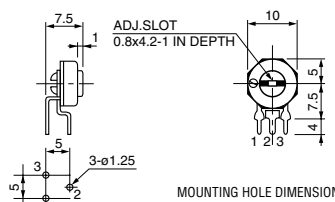
メタルグレース半固定ポテンシオメータ

FEATURES

- Excellent stability and environmental resistance by utilization of a metal glazed resistor element.
- Miniature, yet with high power handling capabilities.
- Conform RoHS

特長

- メタルグレース抵抗素子の採用で安定性、耐候性に優れています。
- 小型、高電力形です。
- RoHS適合品です。

VM5CK-PV (with Dust-proof Knob) 	 MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE)	Circuit 
VM6CK-PV(1S) (with Knob) 	 MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE)	VM6CK-PH(1S) (with Knob)   MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE)
TM64K2(PV) (with Dust-proof Knob) 	 MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE)	TM64K2(PH) (with Dust-proof Knob)   MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE)
TM8KV2-1S (with Dust-proof Knob) 	 MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE)	TM8KH1-1S (with Dust-proof Knob)   MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE)
TM10K(PV) (with Dust-proof Knob) 	 MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE) ACJ.SLOT 0.8x4.2-1 IN DEPTH	TM10K(PH) (with Dust-proof Knob)   MOUNTING HOLE DIMENSIONS ON P.C.B.(REFERENCE) ADJ.SLOT 0.8x4.2-1 IN DEPTH

	VM5CK	VM6CK	TM64K	TM8K	TM10K
Operating Temperature Range 使用温度範囲	-30 to 100°C	-30 to 100°C	-30 to 100°C	-30 to 100°C	-30 to 100°C
Rated Power 定格電力	0.2W at 70°C	0.3W at 70°C	0.3W at 70°C	0.5W at 70°C	0.5W at 70°C
Maximum Operating Voltage 最高使用電圧	AC 100V, DC 100V	AC 100V, DC 100V	AC 100V, DC 100V	AC 250V, DC 250V	AC 200V, DC 200V
Resistance Range 全抵抗値範囲	100Ω-1MΩ	200Ω-1MΩ	100Ω-1MΩ	200Ω-1MΩ	100Ω-1MΩ
Total Resistance Tolerance 全抵抗値許容差	±25%	±20%	±20%	±20%	±20%
Resistance Taper 抵抗変化特性	OB: Linner Taper	OB: Linner Taper	OB: Linner Taper	OB: Linner Taper	OB: Linner Taper
Temperature Coefficient 温度係数	Within ±200ppm/°C at 500Ω to Less than 100kΩ Within ±300ppm/°C at Less than 500Ω & 100kΩ or more.	Within ±200ppm/°C at 500Ω to Less than 100kΩ Within ±300ppm/°C at Less than 500Ω & 100kΩ or more.	Within ±200ppm/°C at 500Ω to Less than 100kΩ Within ±300ppm/°C at Less than 500Ω & 100kΩ or more.	Within ±200ppm/°C at Less than 100kΩ Within ±300ppm/°C at 100kΩ or more.	Within ±300ppm/°C
Total Rotational Angle 全回転角度	200±20°	200±10°	200±10°	260±10°	200±10°
Rotational Torque 回転トルク	2-20mN·m (20-204gf·cm)	3-30mN·m (31-306gf·cm)	3-25mN·m (31-255gf·cm)	3-30mN·m (31-306gf·cm)	3-35mN·m (31-357gf·cm)
Operating Life 耐回転性	50 cycles	50 cycles	50 cycles	100 cycles	100 cycles
Weight at 100pcs 重さ (100個)	21.6g	PV: 37.0g PH: 37.0g	PV: 43.7g PH: 44.0g	PV: 71.0g PH: 68.0g	PV: 74.5g PH: 79.9g