Excellent Integrated System Limited

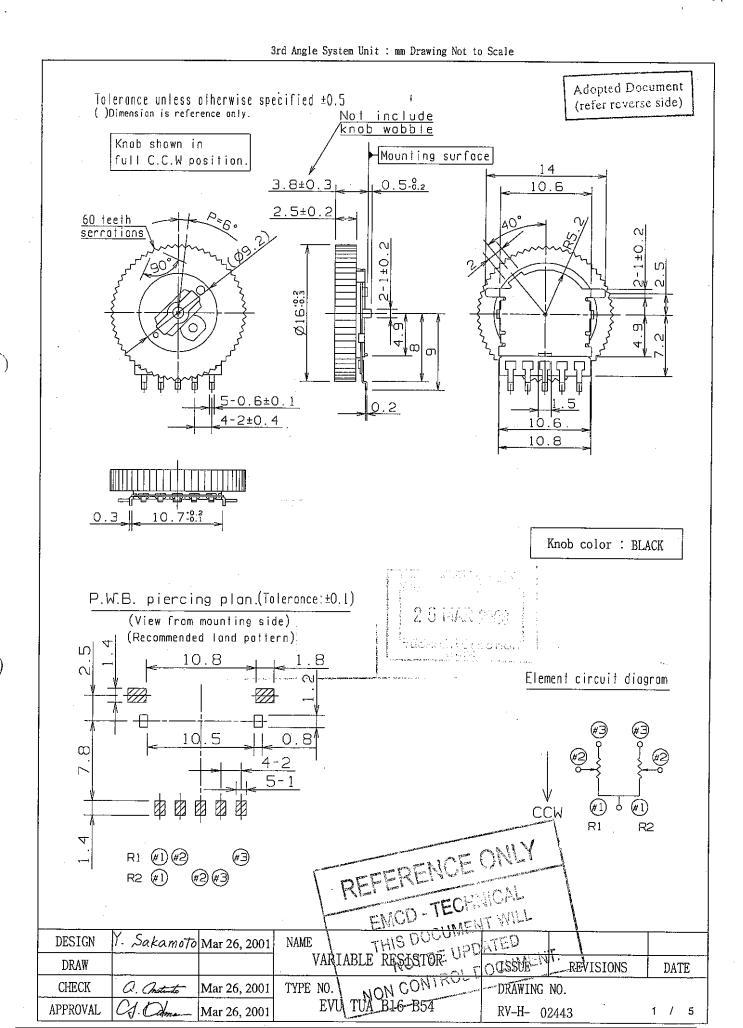
Stocking Distributor

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Panasonic Electronic Components EVU-TUAB16B54

For any questions, you can email us directly: sales@integrated-circuit.com







Scope:

- · Control shown is designed in reference with our specifications.
- · Also see samples attached.

<u>Mechanical Specifications:</u>

· Knob rotation angle

: 270 $^{\circ}$ \pm 5 $^{\circ}$

Knob stopper strength

: 60.0 mN·m min.(State of mounting a volume on the P.W.B.)

· Knob rotation torque

: 0.5 mN·m to 10.0 mN·m (At 5 $^{\circ}$ C to 35 $^{\circ}$ C) (Knob shall be rotated at -10 $^{\circ}$ C)

· Konb wobble

: Incliation of the knob shall be \pm 0.3 mm max.

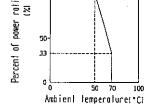
(Without external force.)

Electrical Specifications:

*1

<u>Power Derating Curve</u>

Resistor No.s	Nominal total res. value and tolerance	Taper (Our code)	Minimum re between t #1 & #2		Rated power (W)		ited age(V)	Noise level (mV)
R1	50k Ω±30%	В	10 Ωmax.	25 Ωmax.	0.01	AC	20	100max.
R2	50k Ω±30%	В	10 Ωmax.	25 Ωmax.	0.01	AC	20	100max.



*1 For potentiometers operated in ambient temperatures above 50 °C, Power Rating shall be derated in accordance with the Power Derating Curve.

· Taper

:Output voltage ratio is 40 % to 60 % at 135° ±3.°

position. Percentage of input voltage between terminal 1 and 3

versus output voltage between terminal 1 and 2.

Tracking

An AC voltage of 2 V at 1 kHz shall be applied between terminals 1 and 3 of each resistor. The ratio of the out-put between terminals 1 and 2 to the applied voltage shall be within 3 dB from -20 dB to 0 dB within 3 dB from -40 dB to -20 dB regarding the resistor as

· Insulation resistance

: 100 MΩ min. (At DC 100 V)

· Withstand voltage

: AC 100 V , 1 min min.

<u>Durability:</u>

· Rotation life

: 10000 T min.

· Soldering heat

: No intermittent and breakdown after soldering.

In case of hand soldering

··· 260 °C max. , 3 s max. , 30 W max.

In case of reflow soldering

··· Refer to the clause of Soldering conditions. (Only 1 time)

Notes:

· Marking

: • Our identification mark 🕙

· Nominal resistance value

· Taper code and Nominal resistance value · Date code (Last 3 characters of our part No.)

'(Packing case only)

· Caution

: · Do not use in D C voltage condition.

· Please give consideration for providing construction to hold knob in order to prevent knob from side force.

Please don't apply excessive stress to terminals to avoid electric intermittence.

· Please don't place the products in a location where corrosive gas may be generated.

· Others : Correspond to JIS-C-6443-requirements.

NAME

VARIABLE RESISTOR

ISSUE EMCO-REGIONS!CAL DATE

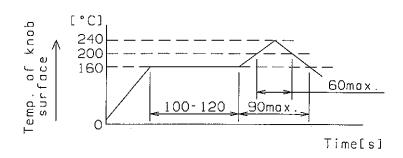
TYPE NO.

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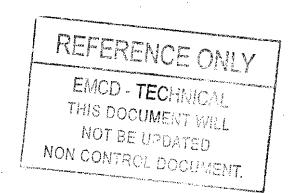


<u>Soldering conditions</u>:



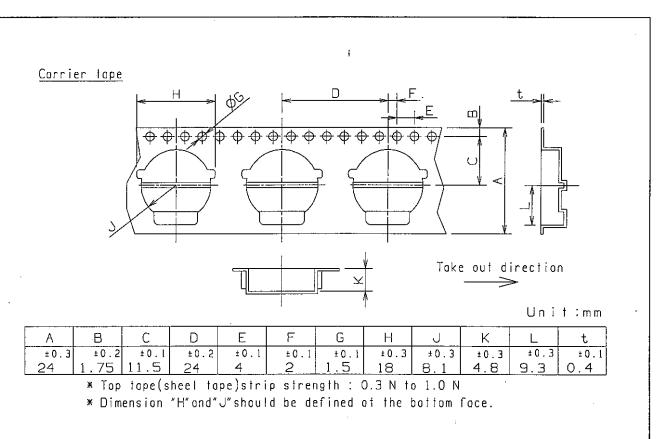
- · Please solder mounting metal certainly.
- ·Re-soldering by slodering iron shall be allowed under 260 °C max. , 3 s max. , 1 time. Soldering iron for re-soldering have to be 30 W max.
- · Please avoid washing after soldering, it may cause electrical contact failure.
- · However the reflow temperature curve is the same as above profile, real thermal stress for part(s) and solderbility are depend on each reflow system.

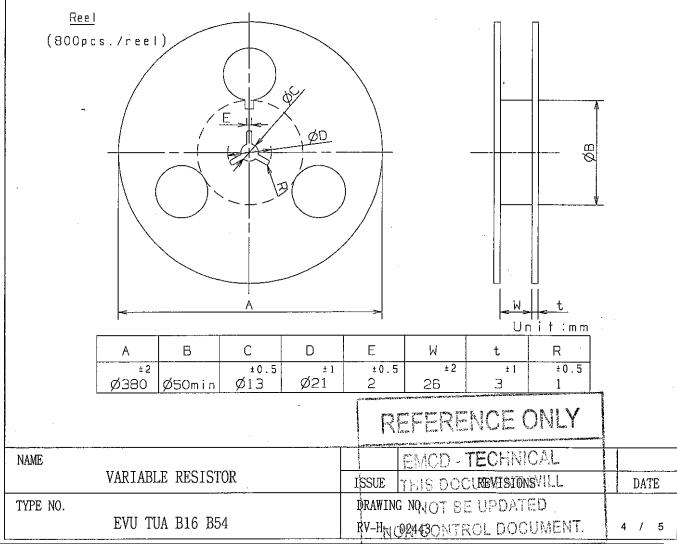
 Please do enough pre-checking for the reflow conditions on your system.



NAME			-	
	VARIABLE RESISTOR	ISSUE	REVISIONS	DATE
TYPE NO.		DRAWING NO.		
	EVU TUA B16 B54	RV-H- 02443		3 / 5









Prohibitions and precautions for handling.

- 1)Prohibited items on fire and smoking
- · Absolutely avoid use of a potentiometer beyond its rated range because doing so may cause a fire. If misuse or abnormal use may result in conditions in which the potentiometer is used out of its rated range, take proper measures such as current interruption using a protective circuit.
- The grade of nonflammability for resin used in potentiometers is "94HB," which is based on UL94 Standards (flammability test for plastic materials). Prohibit use in a location where a spreading fire may be generated or prepare against a spreading fire.
- 2) For use in equipment for which safty requested
- · Although care is taken to ensure potentiometer quality, inferior characteristics, short circuits, open circuits are some problems that might be generated. To design a set which places maximum emphasis on safety, review the affect of any single fault of a potentiometer in advance and preform virtually fail-safe design to ensure maximum safety by:
 - · Preparing a protective circuit or a protective device to improve system safety, and
 - Preparing a redundant circuit to improve system safety so that the single fault of a potentiometer does not cause a dangerous situation.

3)Reliability

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- The item designed mainly corresponds to JIS(Japan Industry Standard) on the reliability conditions.
 - · Operation temperature range: -10 $\ensuremath{\mathbb{C}}$ to +70 $\ensuremath{\mathbb{C}}$
 - · Preservative temperature range: -40 $^{\circ}$ C to +70 $^{\circ}$ C

Handling of approval specification.

- This specification form specify this item only. Please perform your approval test in the actual application conditions beforehand.
- · Please return one copy of this specification form with your approval stamp or signature to us.

Otherwise, it might be happened that the item can not be supplied. The terms to return back us after receipt of this product specificatin shall be one year from the issued date. In case more than one year past, please request

us new specifications again before ordering this product.

• Writings in this specification form are subject to change through precautios.

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