

Series 14VR 14mm Panel Potentiometer

- Standard 14mm package size
- Rotational life (15,000 cycles)
- Wide temperature range (-10°C to +70°C)
- Dual output with excellent tracking (±2 dB)
- Variety of standard resistances & tapers

Applications

- Consumer portable electronics
- Commercial appliances
- Instrument amplifiers and guitar effects
- Keyboards and synthesizers
- Communications equipment

Rohs Sense

Ordering Information

Series	Eler	nent	Terminal Configuration		haft ngth	Shaft Trim	Mech Tra	anical ivel	Det Opt		sistance Code		istance aper
14VR	4	2	Н		20	F	4	2	N	l	103		B1
		Code	Spec.						ode	Spec.	_	Code	Spec.**
		Х	Horizontal/Side Bushingless, PC 10mm Height		Code	▼ Spec.			N No	Detent enter Detent	-	A2 A3 B1	10% Log 15% Log linear
		Н	Vertical/Rear M Thread Bushing,		F	Flatted					_	C3	15% Antilog
	,	К	Vertical/Rear M Sleeve Bushing,										
		Υ	Horizontal/Side Thread Bushing, 10mm Height										
	-	U	Vertical/Rear M Bushingless, PC			-	Code 2	Spec.	_	Code 502	Spec 5kΩ		
Code	Spec.	_		Code	Spec.*			300	_	103	10kΩ		
	Dual	_		12	12.5 mm	-				203	20kΩ		
	Duai	_		15	15 mm	-				503	50kΩ		
				17	17.5 mm	-				104	100kΩ	!	
				20	20 mm	-				254	250kΩ		
				22	22.5 mm	-				504	500kΩ	<u>!</u>	
				25	25 mm	-							
				27	27.5 mm	_							
				30	30 mm	_							

^{*} See shaft trim options for available lengths.

^{**} Other JIS tapers are available. See charts.



Electrical Specifications

		Min	Typical	Max	Unit
Total Resistance Tolerance		-20	_	+20	%
Power Rating		_	+0.05	_	watt
Operating Voltage		_	_	+50	VAC
Residual Resistance		_	_	+30	Ω
Slider Noise		_	_	+100	mV
Tracking Error		-2	_	+2	dB
Insulation Resistance	250 VDC for 1 min.	+100			ΜΩ
Dielectric Strength	300 VAC for 1 min. no a	rcing	·		
Taper	Linear and audio options (see charts)				

Mechanical

Total Mechanical Travel	300° ± 5°
Operating Torque	30 to 200 gf-cm
Shaft Wobble	
Bushingless	0.7 x L/20mm p-p max.; L = Shaft Length
With Bushing	0.7 x L/30mm p-p max.; L = Shaft Length
Shaft Push-Pull Strength	8 kgf for 3 sec.
Stop Strength	5 kgf-cm min.
Detent Position	150° ± 5°
Detent Torque	30 to 300 gf-cm
Rotational Life	15,000 cycles
Panel Nut Tightening Torque	10 kgf-cm
IP Rating	40
Mounting Hardware	One flat washer and one mounting hex nut supplied with bushing option
Packaging	Tray
Weight	3 grams
· · · · · · · · · · · · · · · · · · ·	

Environmental

°C					
9.0					
°C					
Preheat: 100° C max for 2 min max; Solder temperature: 260° C \pm 5° C for 5 sec max.; No clean foam flux recommended					
350°C ± 5°C for 3 sec max.; Sn95Ag5 no clean solder					

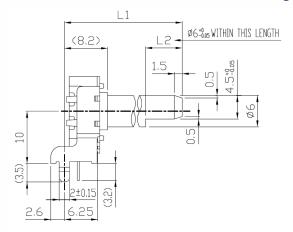
All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications
This product is compliant to RoHS3 Directive 2015/863 Amendments of Annex II on 31 March 2015, and REACH SVHC Directive EC 1907/2006 Amendments of
Annex XIV & Annex XVII on 15 January 2018.

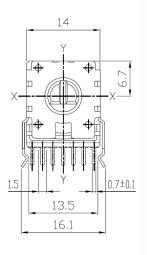
 $Custom\ and\ value-added\ options\ available\ on\ request.\ \ Please\ contact\ your\ sales\ representative\ for\ additional\ information.$

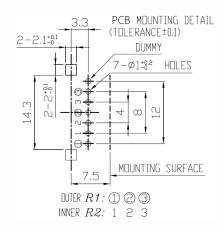


Mechanical Specifications

Series 14VR Horizontal/Side Mount Bushingless

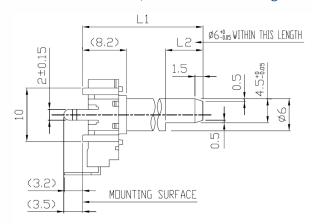


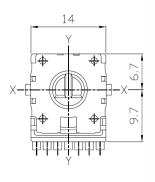




SHAFT SHOWN IN CENTER POSITION OR CENTER CLICK POSITION

Series 14VR Vertical/Rear Mount Bushingless





PCB MOUNTING DETAIL

(TOLERANCE±0.1)

15.3

2-2*8¹

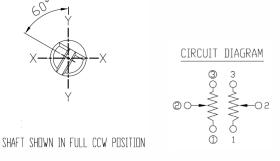
DUMMY

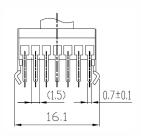
7-Ø1*8² HOLES

DUTER R1: ① ② ③

INNER R2: 1 2 3

SHAFT SHOWN IN CENTER POSITION OR CENTER CLICK POSITION





LENGTH				
L1	L2			
20	7			
22.5	7			
25	12			
27.5	12			
30	12			

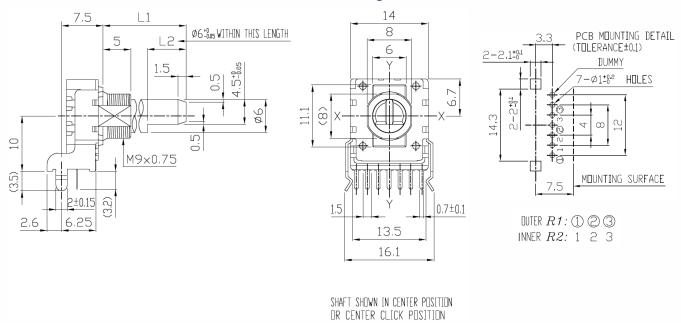
TOLERANCES UNLESS OT	HERWISE SPEC
L ≦ 10	±0.3
10 <∟ ≦ 100	±0.5
100 <l< th=""><th>±0,8</th></l<>	±0,8
ANGULAR DIMENSION	±5°

Unit: mm

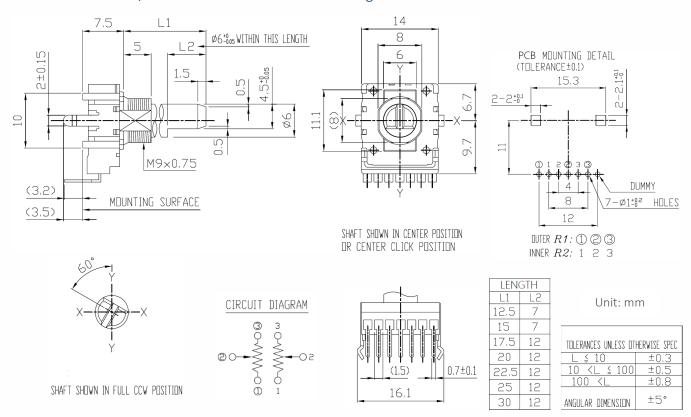


Mechanical Specifications

Series 14VR Horizontal/Side Mount with Threaded Bushing



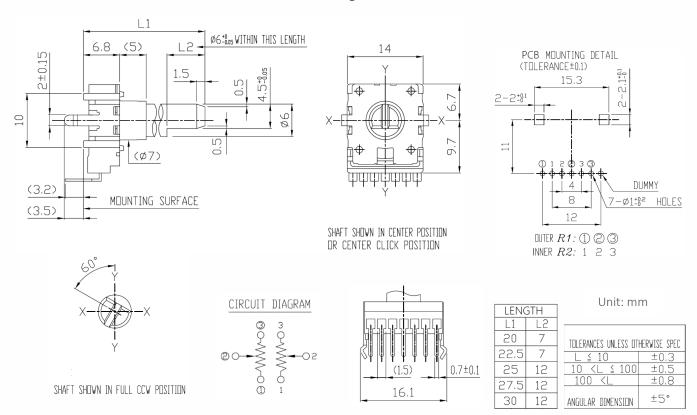
Series 14VR Vertical/Rear Mount with Threaded Bushing





Mechanical Specifications

Series 14VR Vertical/Rear Mount with Sleeve Bushing



Electrical Specification

Series 14VR Taper Graphs

