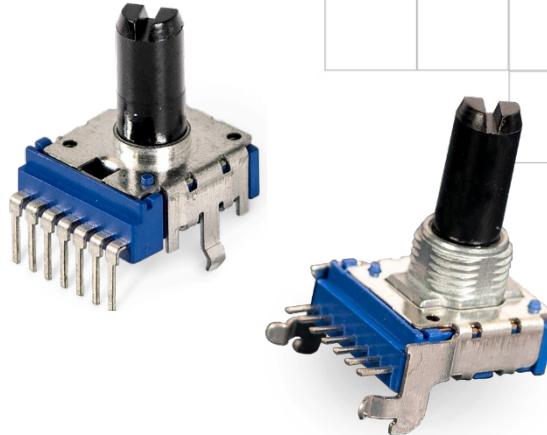


Series 14VR

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

Ordering Information

Series	Element	Terminal Configuration	Shaft Length	Shaft Trim	Mechanical Travel	Detent Option	Resistance Code	Resistance Taper	
14VR	2	H	20	F	2	N	103	B1	
		Code	Spec.			Code	Spec.		
		X	Horizontal/Side Mount Bushingless, PC Pins, 10mm Height			N	No Detent	Code	Spec.**
		H	Vertical/Rear Mount Thread Bushing, PC Pins	F	Flattened	C	Center Detent	A2	10% Log
		K	Vertical/Rear Mount Sleeve Bushing, PC Pins					A3	15% Log
		Y	Horizontal/Side Mount Thread Bushing, PC Pins, 10mm Height					B1	linear
		U	Vertical/Rear Mount Bushingless, PC Pins					C3	15% Antilog
		Code	Spec.			Code	Spec.		
		2	Dual			2	300°		
				Code	Spec.*				
				12	12.5 mm			Code	Spec.
				15	15 mm			502	5kΩ
				17	17.5 mm			103	10kΩ
				20	20 mm			203	20kΩ
				22	22.5 mm			503	50kΩ
				25	25 mm			104	100kΩ
				27	27.5 mm			254	250kΩ
				30	30 mm			504	500kΩ

** 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		MΩ
Dielectric Strength	300 VAC for 1 min. no arcing			
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

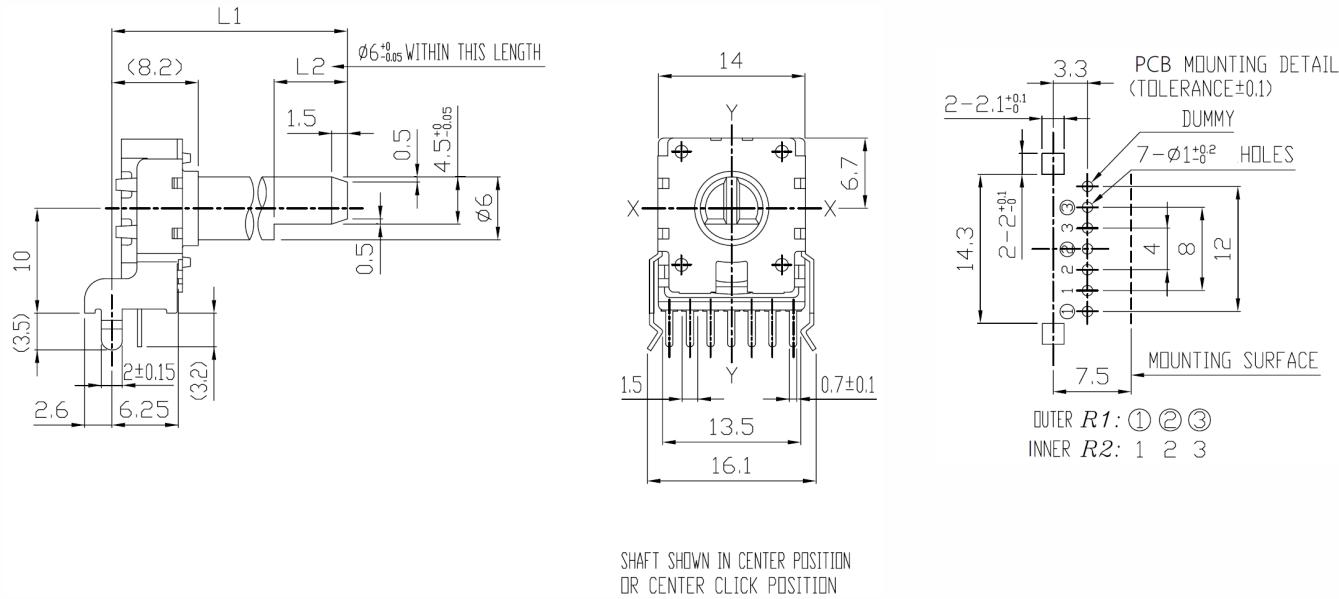
	Min	Typical	Max	Unit
Operating Temperature	-10	—	+70	°C
Storage Temperature	-30	—	+70	°C
Soldering Conditions				
Wave Solder	Preheat: 100°C max for 2 min max; Solder temperature: 260°C ± 5°C for 5 sec max.; No clean foam flux recommended			
Manual Solder Wash	350°C ± 5°C for 3 sec max.; Sn95Ag5 no clean solder Not recommended			
Moisture Sensitivity Level	1			
ESD Classification (HBM)	Not applicable			

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.

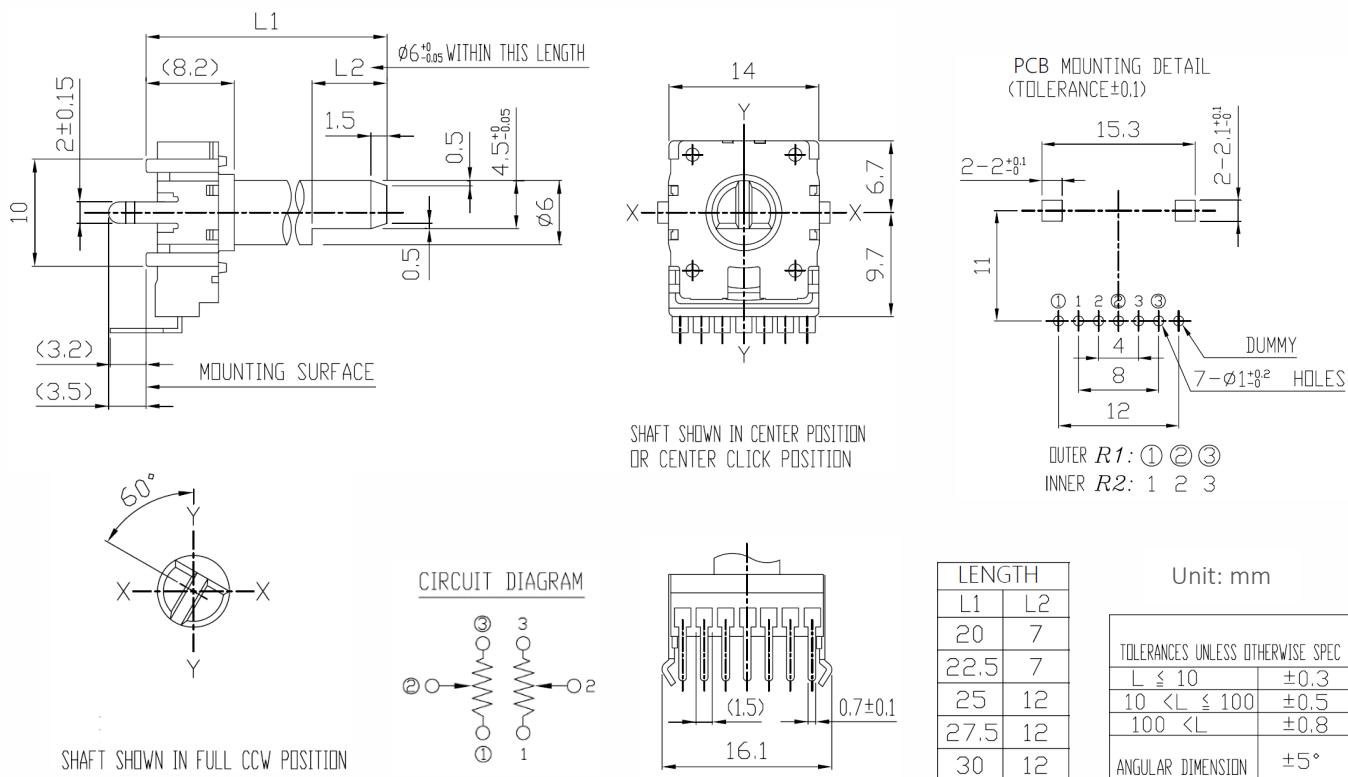
Custom and value-added options available on request. Please contact your sales representative for additional information.

Mechanical Specifications

Series 14VR Horizontal/Side Mount Bushingless

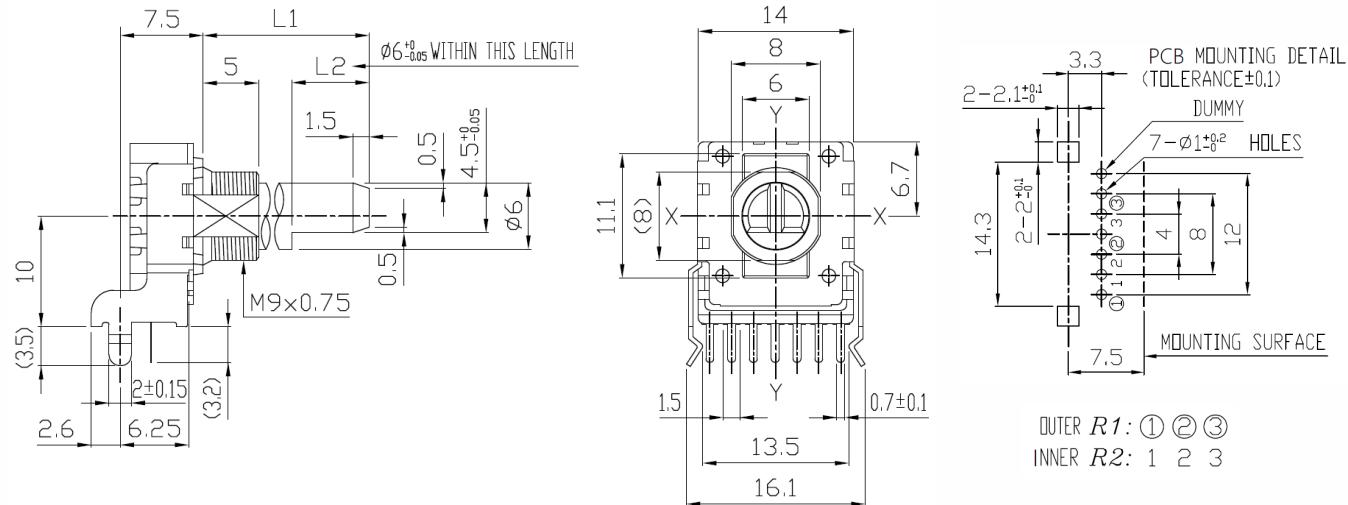


Series 14VR Vertical/Rear Mount Bushingless

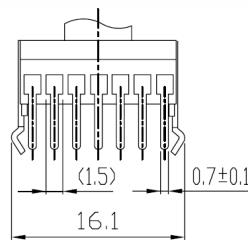
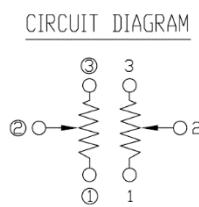
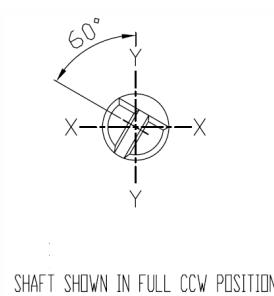
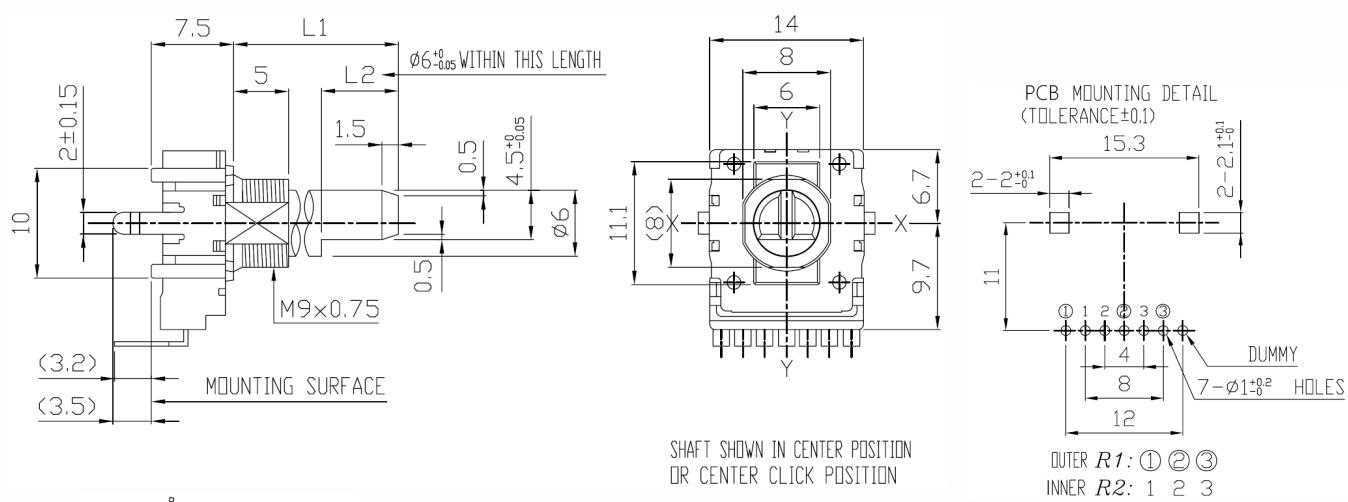


Mechanical Specifications

Series 14VR Horizontal/Side Mount with Threaded Bushing



Series 14VR Vertical/Rear Mount with Threaded Bushing

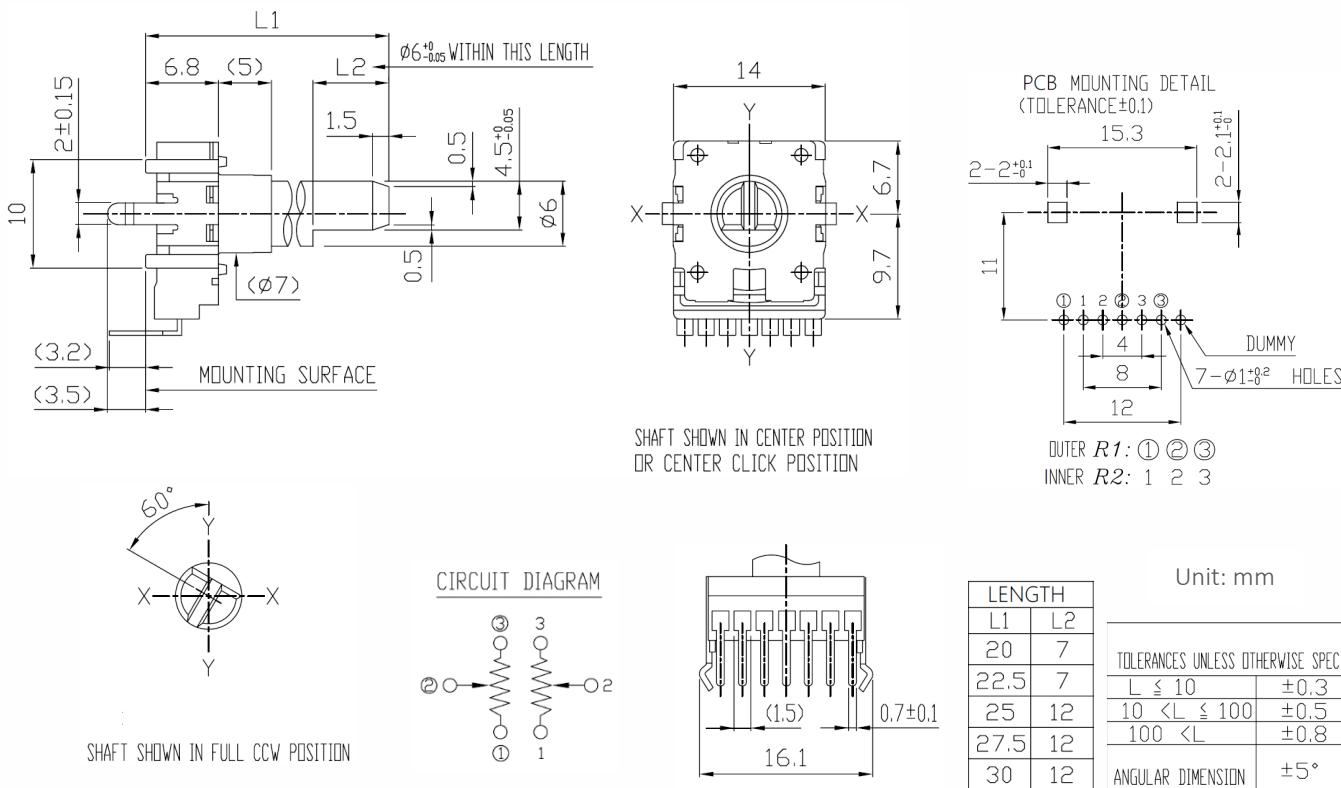


Unit: mm

TOLERANCES UNLESS OTHERWISE SPEC	
L \leq 10	± 0.3
10 < L \leq 100	± 0.5
100 < L	± 0.8
ANGULAR DIMENSION	
$\pm 5^\circ$	

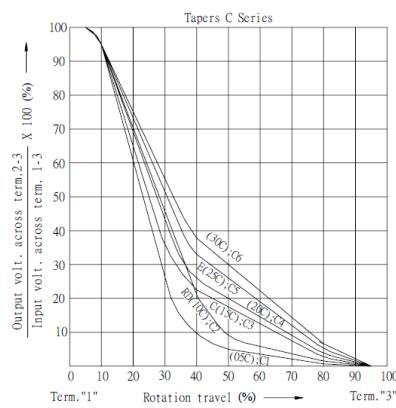
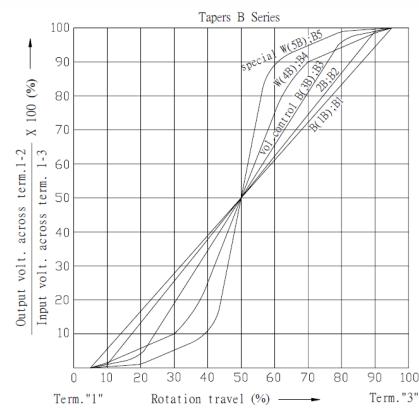
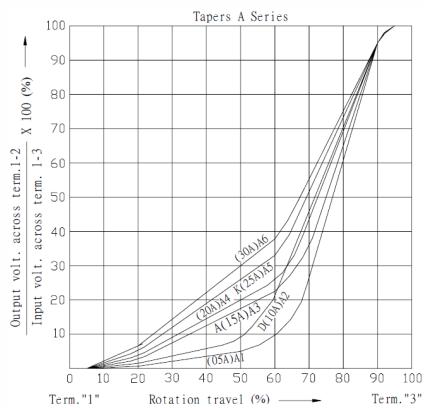
Mechanical Specifications

Series 14VR Vertical/Rear Mount with Sleeve Bushing



Electrical Specification

Series 14VR Taper Graphs



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

CTS:

[14VR2Y25F2N103B1](#) [14VR2U20F2C103B1](#) [14VR2X20F2N103B1](#) [14VR2H25F2C103B1](#)