

Series 11VR 11mm Panel Potentiometer

- Compact 11 mm package size
- Rotational life (15,000 cycles)
- Wide temperature range (-10°C to +70°C)
- Single and dual output options

Applications

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

RoHS Compliant Sense

Ordering Information

Series	Elen	nent	Terminal Configuration	Shaft Length	Shaft Trim	Mechanical Travel	Detent Option	Resistance Code	Resistar Taper	
11VR	1	l	Н	20	F	2	Ν	103	B1	
Code 1 2	Spec. Single Dual	Code X H K Y U	V	s t t s pec.' 2 12.5 m 7 17.5 m	Dode Spec. Knurled (18 teeth) F Flatted		ode Spec N No Deter C Center D	nt .	Code Spee A2 10% A3 15% B1 lines C3 15%	ec.** 6 Log 6 Log ar 6 Antilo
							_	504 500kg		
			25	5 25 mm						
			27							

^{*} 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 +20	VAC VDC
Residual Resistance		_	+30	_	Ω
Slider Noise		_	_	+100	mV
Tracking Error	Dual version only	-2	_	+2	dB
Insulation Resistance					
Single	500 VDC for 1 min.	+100	_	_	$M\Omega$
Dual	250 VDC for 1 min	+100	_	_	$M\Omega$
Dielectric Strength					
Single 500 VAC for 1 min., no a		arcing			
Dual	250 VAC for 1 min., no arcing				
Taper	Linear and audio option	s (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				sec max.;	
	No clean foam flux recommended				
Manual Solder	350°C ± 5°C for 3 sec max.; Sn95Ag5 no clean solder				
Wash	Not recommended				
Moisture Sensitivity Level	1				
ESD Classification (HBM)	Not applicable				

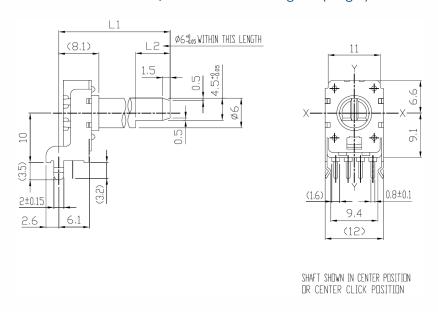
All testing is performed at room ambient conditions except as noted. Users should verify device actual performance in their specific applications
This product is compliant to RoHS3 Directive 2015/863 Amendments of Annex II on 31 March 2015, and REACH SVHC Directive EC 1907/2006 Amendments of
Annex XIV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

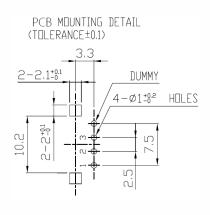
Custom and value-added options available on request. Please contact your sales representative for additional information.



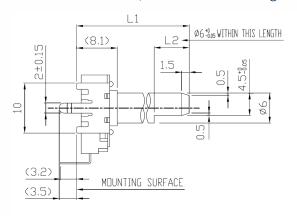


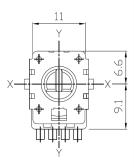
Series 11VR Horizontal/Side Mount Bushingless (Single)



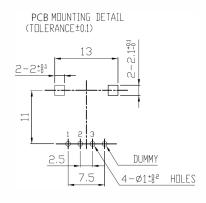


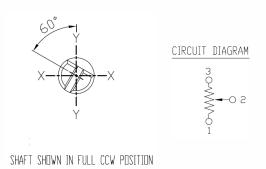
Series 11VR Vertical/Rear Mount Bushingless (Single)

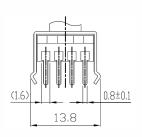




SHAFT SHOWN IN CENTER POSITION OR CENTER CLICK POSITION







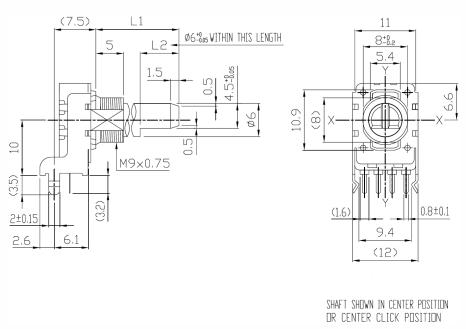
LENGTH		
L1	L2	
20	7	
22.5	7	
25	12	
27.5	12	
30	12	

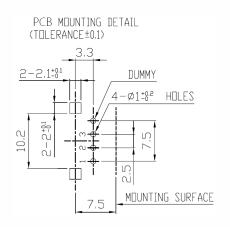
 $\begin{array}{c|cccc} \text{TDLERANCES UNLESS DTHERWISE SPEC} \\ L \leq 10 & \pm 0.3 \\ 10 < L \leq 100 & \pm 0.5 \\ 100 < L & \pm 0.8 \\ \\ \text{ANGULAR DIMENSION} & \pm 5^{\circ} \\ \end{array}$

Unit: mm

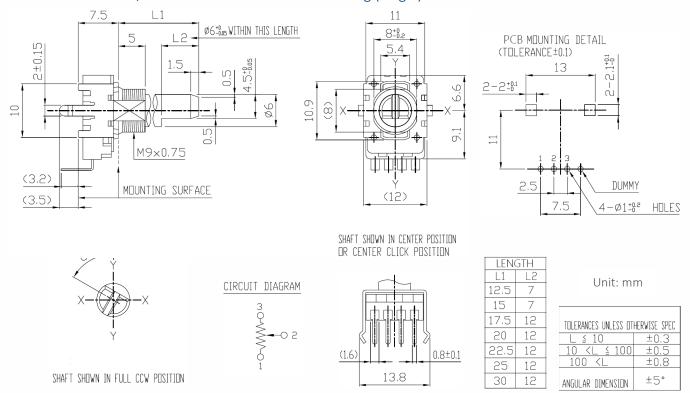


Series 11VR Horizontal/Side Mount with Threaded Bushing (Single)



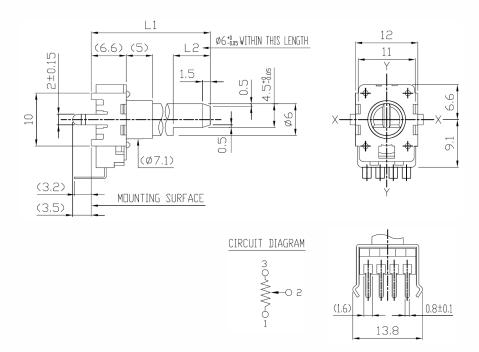


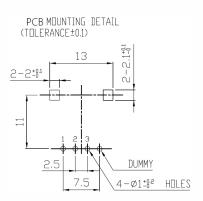
Series 11VR Vertical/Rear Mount with Threaded Bushing (Single)



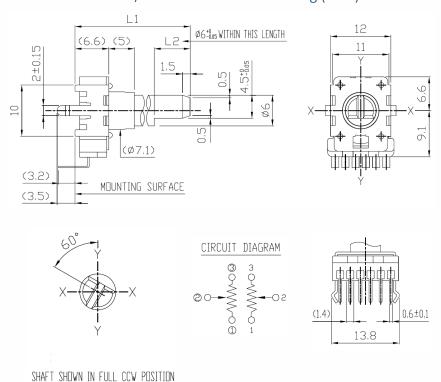


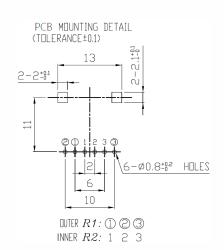
Series 11VR Vertical/Rear Mount Sleeve Bushing (Single)





Series 11VR Vertical/Rear Mount Sleeve Bushing (Dual)





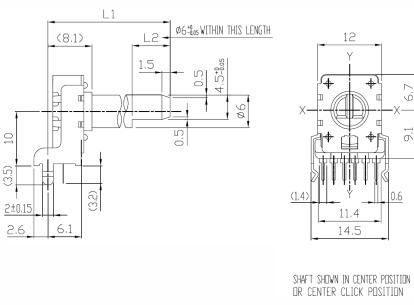
LENGTH		
L1	L2	
20	7	
22.5	7	
25	12	
27.5	12	
30	12	

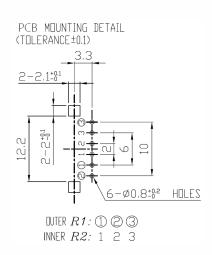
TO FOANCES UNI ESS OF	HED JOE ODEO
TOLERANCES UNLESS OT	HEKMIZE ZLEC
L ≦ 10	±0.3
10 <∟ ≦ 100	±0.5
100 <l< th=""><th>±0.8</th></l<>	±0.8
ANGULAR DIMENSION	±5°

Unit: mm

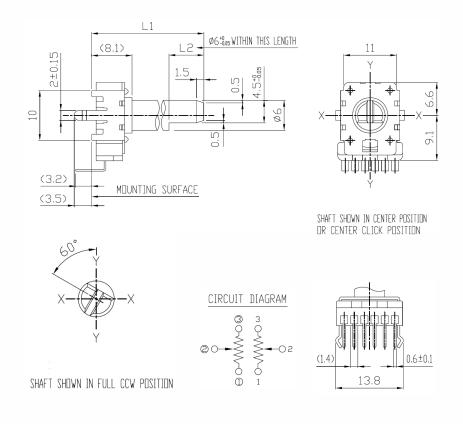


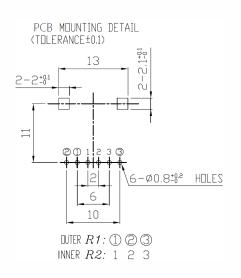
Series 11VR Horizontal/Side Mount Bushingless (Dual)





Series 11VR Vertical/Rear Mount Bushingless (Dual)





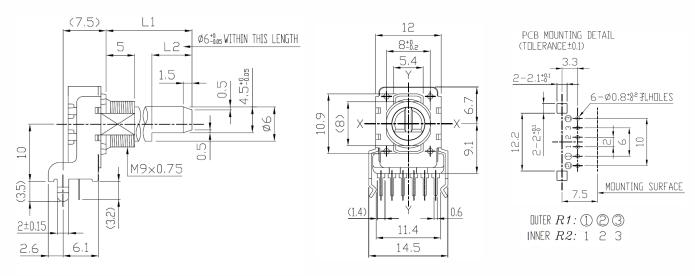
LENG	LENGTH		
L1	L2		
20	7		
22.5	7		
25	12		
27.5	12		
30	12		

Unit: mm

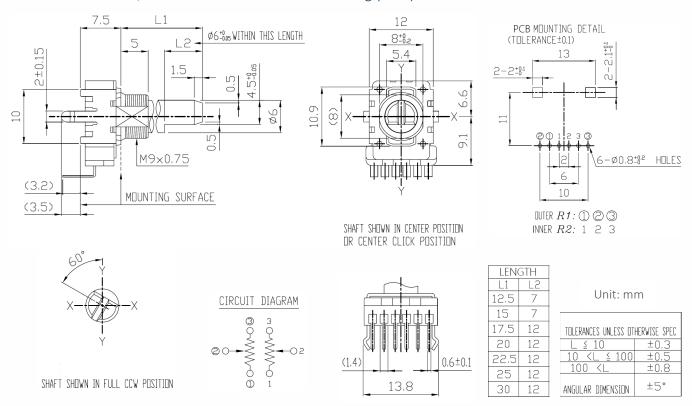
TOLERANCES UNLESS OTHERWISE SPEC				
L ≦ 10	±0.3			
10 <∟ ≦ 100	±0.5			
100 <l< th=""><th>±0.8</th></l<>	±0.8			
ANGULAR DIMENSION	±5°			



Series 11VR Horizontal/Side Mount with Threaded Bushing (Dual)

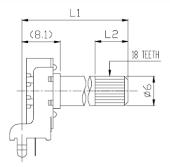


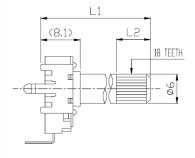
Series 11VR Vertical/Rear Mount with Threaded Bushing (Dual)





18 Tooth Knurl Shaft Trim Option

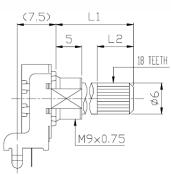


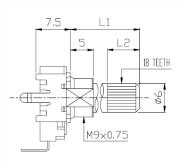






SHAFT SHOWN IN FULL CCW POSITION



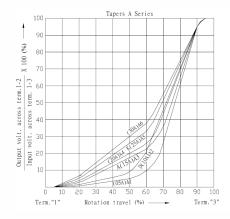


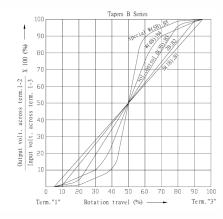
LENGTH		
L1	L2	
12.5	7	
15	7	
17.5	12	
20	12	
22.5	12	
25	12	
30	12	

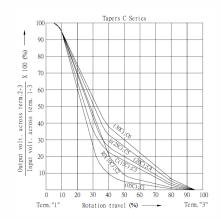
Unit: mm

Electrical Specification

Series 11VR Taper Graphs







Mouser Electronics

Authorized Distributor

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

CTS:

<u>11VR2Y25F2N103B1</u> <u>11VR2H25F2C103B1</u> <u>11VR1Y25F2N103B1</u> <u>11VR1U20F2C103B1</u> <u>11VR1H25F2C103B1</u> 11VR2X20F2N103B1 11VR2U20F2C103B1 11VR1X20F2N103B1