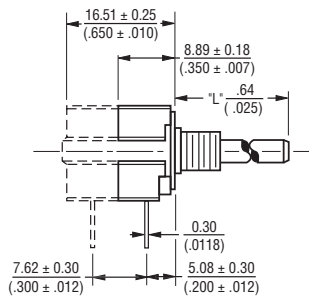


51/53 - Sealed 1/2" (12.5 mm) Square Control

BOURNS®

Product Dimensions

PACKAGE DIMENSIONS



(SINGLE AND DUAL MODULE SHOWN)



(DOUBLE MODULE FRONT AND REAR BRACKET SHOWN)

PACKAGE DIMENSIONS PCB MOUNTING BRACKET



SOLDER LUG TERMINALS MODEL 53



ELECTRICAL SCHEMATIC



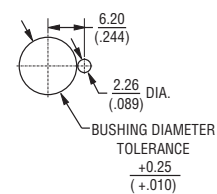
ANTI-ROTATION LUG (Style "A" Shown)



SHAFT FLAT ORIENTATION



SUGGESTED PANEL LAYOUT



FOR TOLERANCES SHOWN: .XX = ± .25 (.010)
 .XXX = ± .13 (.005)
 SHAFT DIMENSIONS ± .80 (1/32)

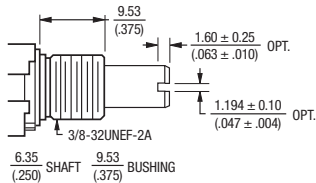
DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

Specifications are subject to change without notice.
 The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.
 Users should verify actual device performance in their specific applications.

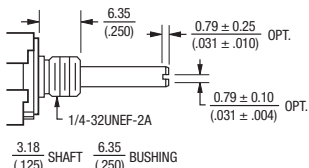
51/53 - Sealed 1/2" (12.5 mm) Square Control

BOURNS®

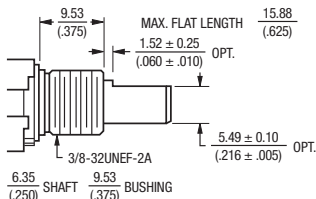
Shaft/Bushing Styles



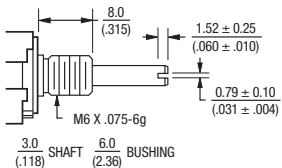
A Style Bushing	
STD. LENGTH 'L'	
.500	(12.7)
.625	(15.88)
.750	(19.05)
.875	(22.23)
1.000	(25.4)



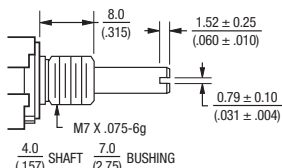
C Style Bushing	
STD. LENGTH 'L'	
.375	(9.53)
.500	(12.7)
.625	(15.88)
.750	(19.05)
.875	(22.23)
1.000	(25.4)



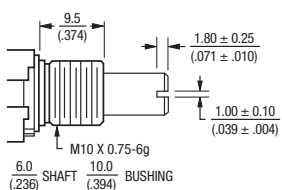
A Style Bushing - Flatted Shaft	
STD. LENGTH 'L'	
.625	(15.88)
.750	(19.05)
.875	(22.23)
1.000	(25.4)



S Style Bushing	
STD. LENGTH 'L'	
.630	(16.0)
.866	(22.0)
.984	(25.0)



U Style Bushing	
STD. LENGTH 'L'	
.630	(16.0)
.866	(22.0)
.984	(25.0)



R Style Bushing	
STD. LENGTH 'L'	
.630	(16.0)
.866	(22.0)
.984	(25.0)

DIMENSIONS: $\frac{\text{MM}}{\text{(INCHES)}}$

How To Order

51 A A D - B 28 - A 15 / A15 L

Part number for multiple section potentiometers must have a taper and resistance value for each section.

RoHS IDENTIFIER
L Compliant

MOUNTING BRACKET/ ANTI-ROTATION LUG	
Code	Description
A	AR Lug 90° CW
D	No AR Lug or Bracket
L	Front Bracket
M	Rear Bracket
N	Front and Rear Bracket

# SECTIONS/DETENTS	
Code	Description
A	Single No Detent
B	Double No Detent
E	Single w/Center Detent
F	Double w/Center Detent

BUSHING CONFIGURATION	
Code	Description
A	3/8" D x 3/8" L
C	1/4" D x 1/4" L
R	10 mm D x 9.5 mm L
S	6 mm D x 8 mm L
U	7 mm D x 8 mm L

MODEL	
Code	Description
51	PC Pins (.100" centers)
53	Solder Lugs

ELEMENT TAPER TYPE/TOLERANCE		RESISTANCE (CODE)	
Code	Description	VALUE IN OHMS	
(A)	Linear Cermet ±10 %	(28) - 150	(14) - 7.5 K
(H)	Linear Cermet ±5 %	(06) - 200	(15) - 10 K
		(07) - 250	(30) - 15 K
		(08) - 500	(16) - 20 K
		(09) - 750	(17) - 25 K
		(10) - 1 K	(18) - 50 K
		(29) - 1.5 K	(19) - 75 K
		(11) - 2 K	(20) - 100 K
		(12) - 2.5 K	(21) - 500 K
		(13) - 5 K	(25) - 1 M
(B)	Linear C-P ±20 %	(10) - 1 K	(18) - 50 K
(E)	Linear C-P ±10 %	(12) - 2.5 K	(20) - 100 K
		(13) - 5 K	(22) - 250 K
		(15) - 10 K	(23) - 500 K
		(16) - 20 K	(25) - 1 M
		(17) - 25 K	
(C)	CW Audio Cermet ±10 %	(10) - 1 K	(18) - 50 K
(F)	CCW Audio Cermet ±10 %	(12) - 2.5 K	(20) - 100 K
		(13) - 5 K	(23) - 500 K
		(15) - 10 K	(25) - 1 M
		(17) - 25 K	
(D)	CW Audio C-P ±20 %	(10) - 1 K	(18) - 50 K
(S)	CW Audio C-P ±10 %	(12) - 2.5 K	(20) - 100 K
		(13) - 5 K	(22) - 250 K
		(15) - 10 K	(23) - 500 K
		(17) - 25 K	(25) - 1 M
(G)	CCW Audio C-P ±20 %	(10) - 1 K	(18) - 50 K
(T)	CCW Audio C-P ±10 %	(12) - 2.5 K	(20) - 100 K
		(13) - 5 K	(22) - 250 K
		(15) - 10 K	(23) - 500 K
		(17) - 25 K	(25) - 1 M
(Y)	CW Dual Audio Taper C-P ±20 %	(10) - 1 K	(18) - 50 K
		(12) - 2.5 K	(20) - 100 K
		(13) - 5 K	(22) - 250 K
		(15) - 10 K	(23) - 500 K
		(17) - 25 K	(25) - 1 M

SHAFT TYPE		AVAILABLE ONLY IN BUSHINGS	
Code	Description	Code	Description
B	Single Slotted 1/4" D	A	24,28
C	Single Flatted 1/4" D	A	20,24,28,32
E	Single Slotted 1/8" D	C	12,16,20,24,28
R	Single Slotted 6 mm D	R	16,22,25
T	Single Slotted 4 mm D	U	16,22,25
U	Single Slotted 3 mm D	S	16,22,25

SHAFT LENGTH (FMS)		AVAILABLE ONLY IN BUSHING
Code	Description	Code
12	3/8"	C
16	1/2"	A, C
20	5/8"	A, C
24	3/4"	A, C
28	7/8"	A, C
32	1"	A, C
Metric		
16	16 mm	R, S, U
22	22 mm	R, S, U
25	25 mm	R, S, U

Boldface features are Bourns standard options. All others are available with higher minimum order quantities.