

Features

- Conductive plastic technology
- Low profile package
- 50,000 cycle rotational life
- Available with momentary push or rotary switch option
- PCB mount terminal configuration
- Rugged metal housing for industrial applications
- Flatted or slotted shaft options
- RoHS compliant*

39 – 13 mm Single-Turn Panel Control with Switch Option

Electrical Characteristics ¹	
	2 ohms maximum
Effective Electrical Angle	000 0 . 50
Rotary Switch Type (Bushing Type 5)	
Momentary Push Switch Type (Bushing Type "L")	
Contact Resistance Variation	
Dielectric Withstanding Voltage (MIL-STD-202, Method 301)	
	100 megohms minimum
Power Rating @ 70 °C (Derated to 0 @ 125 °C)	
(Voltage Limited by Power Dissipation or 350 VAC, which	never is less)
Switch Characteristics	
	SPST N.O.
	200 milliohms maximum
Contact Bounce	5 milliseconds
Contact Resistance @ 10 mA (w/500 gm Shaft Load)	
Actuation Force	
Environmental Characteristics	
	-40 °C to +85 °C (-40 °F to +185 °F)
	±3 %
	±5 %
	±5 %
Load Life	
	±10 %
	±10 %
Switch Life	05 000
Moisture Resistance	MIL-STD-202, Method 103, Condition B
	±10 %
IP Hating	
Mechanical Characteristics	
Machanical Angla	19.8 N-cm (28 ozin.)
Non-Switch and Rotary Switch Type	270 ° ±10 °
Momentary Push Switch Type	
Torque	
	0.07 to 0.70 N-cm (0.1 to 1.0 02.4m.) minimum
Mounting	
Shaft Retentiion Pull Force	4 Ka (9.9 lb.) maximum
Push Force	4 Kg (8.8 lb.) maximum 4.5 Kg (10 lb.) maximum
Weight (Single Section)	4 grams (0.14 oz.)
Terminals	Delinted along it has and to make along
	Printed circuit board terminals Flat terminals
Soldering Condition	
Manual Soldering	96.5Sn/3.0Ag/0.5Cu solid wire or no-clean rosin cored wire; 370 °C (700 °F) max. for 3 seconds
wave boldering	96.5Sn/3.0Ag/0.5Cu solder with no-clean flux; 260 °C (500 °F) max. for 5 seconds
Ganging	1 cup maximum
	One lockwasher (H-37-5) and one mounting nut (H-38-15) is shipped with each potentiometer100 pcs./tray
ı aunayııy	100 pcs./tray



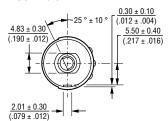
¹ Electrical specifications tested at 250 RPM, at room ambient: +25 °C nominal.

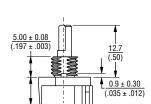
PC - "Slimline" 22 mm Square Single Turn Panel Control

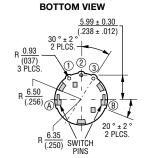
BOURNS®

Product Dimensions

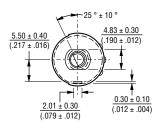
BUSHING STYLE "L"







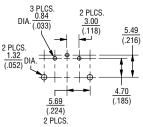
BUSHING STYLE "S"



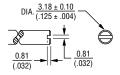
TOLERANCES EXCEPT AS SHOWN: .XX $\frac{0.13}{(.005)}$.X $\frac{0.38}{(.015)}$

5.00 ± 0.08 (197 ± .003) 12.7 (.50) 10.9 ± 0.30 (.035 ± .012)

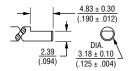
BOARD LAYOUT



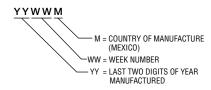
SHAFT STYLE "A"



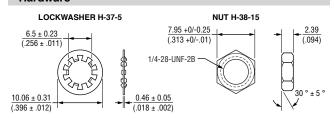
SHAFT STYLE "B"



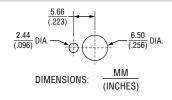
Date Code Description



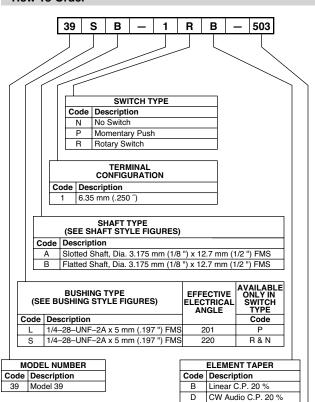
Hardware



Suggested Panel Layout



How To Order



RESISTANCE CODE 20 %	
Code	Description
502	5 K Ohms (13)
103	10 K Ohms (15)
203	20 K Ohms (16)
253	25 K Ohms (17)
503	50 K Ohms (18)
104	100 K Ohms (20)

CCW Audio C.P. 20 %

G

REV. 10/20

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Users should verify actual device performance in their specific applications.

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