

MRSS - MINIATURE ROTARY SWITCH SERIES

PRODUCT DESCRIPTION

The MRSS addresses manual programming applications. These high-quality rotary DIP switches are available in size 7.7mm square (horizontal) and 7.2mm square (vertical) for a wide range of possible applications like elevator and security system. Meanwhile the compact design offers 50% lower profile than standard DIP switches and save space around 40% PCB area. In addition, MRD Series provide more options for terminal, hexadecimal or binary code, with or without complement types to fulfill the variety requirements.

The MRSS Switches are characterised by contact rating of 0.4VA @ 20V DC or AC.

Reference TE customer drawing for application instructions.



FEATURES

- Offer both SMD and THT
- Space saving with a low profile
- High reliability with 2 points contacts
- Hexadecimal or binary code, with complement
- Vertical and horizonal versions
- MSL 1 conformance
- Packaged in Tube and Tape/Reel

APPLICATION

- Elevator
- Single chip
- Security system
- Lighting system
- Machinery
- Telecommunication

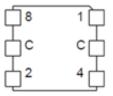
MRSS Series – Type Classification

Rating		0.4VA @ 20V DC or AC MAX.					
Contact Resistance		100m Ω MAX @2VDC 10mA initial					
Operation Temperature		-40°C to 85°C					
Mechanical Life		10,000 steps					
Electrical Life		10,000 steps @ 5VDC, 10mA					
Withstanding Voltage		250VAC for 1 min					
Operation Force		2.0mN-m MIN, 19.6mN ·m MAX.					
	Manual	Temp of iron tip: 320°C MAX. for 4±1 sec					
	Flow	Preheat 100 to 105°C for 30±5 sec					
Soldering Conditions	FIGW	Solder temp 265°C ±3°C for 8±2 sec					
		Preheat 160 to 190°C for 90 to 120 sec					
	Reflow	Reflow temp 225°C (switch surface) for 20 to 60 sec					
		Peak temp 255°C (switch surface) MAX.					

Material Specifications

Components	Material	Finish	Components	Material	Finish		
Case	PSS	Color: Black	Fixed contact	Cu alloy	Au flash		
Frame	PSS	Color: Light Brown, Black	Movable contact	Cu alloy	Au plated		
Rotar	LCP	Color: White	Holder	SUS	Silver		
Plate	SUS	-	-	-	-		

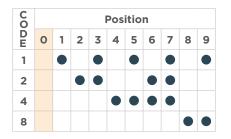
Circuit type

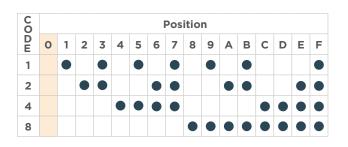


Terminal Identification viewed from bottom switch

R - Real code. 10 and 16 positions.

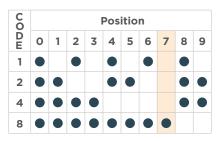
BDC





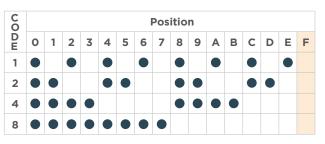
C - Complement code. 10 and 16 positions.

BDC Complement



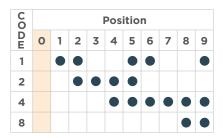
Hexadecimal Complement

Hexadecimal



G - Gray code. 10 and 16 positions.

BDC Gray



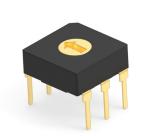
Hexadecimal Gray

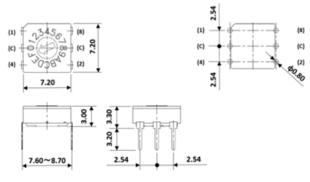
C O	Position															
D E	0	1	2	3	4	5	6	7	8	9	Α	в	С	D	Е	F
1																
2																
4																
8																

MRSS - Miniature rotary switch series

Terminal

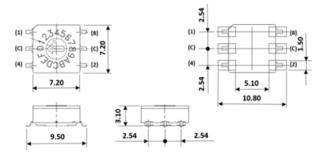
TH - Vertical, through hole TH (Hexadecimal)





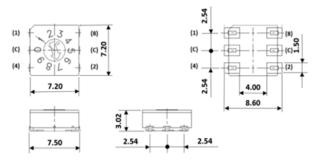
SMGW - Vertical, gullwing SM (Hexadecimal)





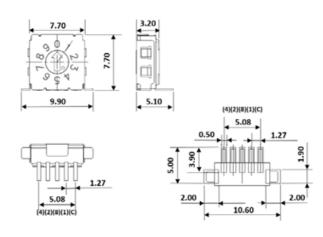
SMJ - Vertical, J-Lead SM (Binary)



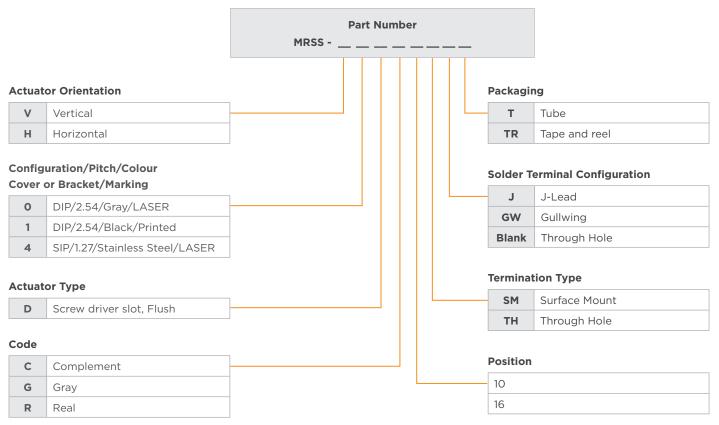


SMGW - Horizonal, gullwing SM (Binary)





ORDERING INFORMATION



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05/22 TJ



Mouser Electronics

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MRSSH4DC16SMGWTR
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