

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	riow	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



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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