

Surface Mounting Type Reed Switches



Outline

These reed switches are Surface-mounting type and Suited for automatic mounting.

Applications

When used in combination with a magnet, the reed switch finds extensive applications in which it provides switching and sensing capabilities.

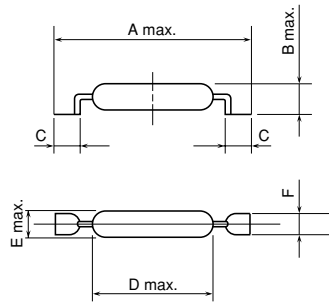
- Cellular phones
- Car electronics
- OA electronics
- Home electronics

Features

- Suited for automatic mounting
- Can be soldered using reflow
- With the NRS-700series, its glass tube is covered with a case, making it easy to handle.

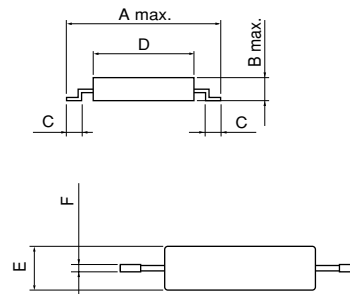
Shapes and Dimensions

● RD Series



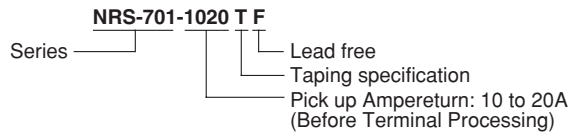
Model	A	B	C	D	E	F
RD-18B-S003	12.5	2.3	1.4	7.5	2.0	1.2
RD- 7B-S002	19.9	2.5	(1.8)	14.0	2.2	1.6

● NRS Series



Model	A	B	C	D	E	F
NRS-701	13.0	2.2	1.2	8.3	2.4	0.4
NRS-771	24.0	3.0	1.6	17.0	3.0	0.6

Numbering System



*Pre-soldering on terminals are lead-free (Sn100%)



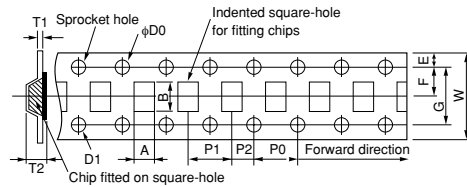
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- Please request for a specification sheet for detailed product data prior to the purchase.
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Specifications

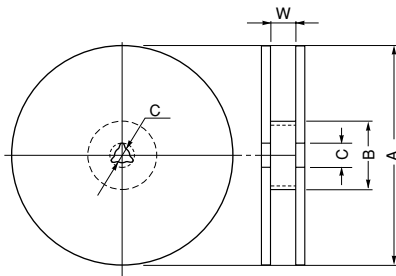
Items		RD-18B	RD-7B	NRS-701	NRS-771
Maximum Switching Power	(W)	1	10	1	10
Maximum Switching voltage	(VDC)	30	100	30	100
Maximum Switching Current	(A)	0.1	0.5	0.1	0.5
Maximum Carrying Current	(A)	0.3	1.0	0.3	1.0
Contact Resistance	(mΩ)	250	150	300	200
Operating Time	(ms) max.	0.5	0.5	1.0	1.0
Release Time	(ms) max.	0.05	0.05	0.1	0.1
Withstand Voltage	(V.DC)	200	200	200	200
Insulation Resistance	(Ω)	10 ⁹ (at 100VDC)		10 ⁷ (at 100VDC)	
Life Expectancy	5VDC, 10mA and Resistive Load	1×10 ⁷	5×10 ⁷	1×10 ⁷	5×10 ⁷
Operating Temperature Range	(°C)	-40~+125		-40~+85	
Weight	(mg) max.	40	90	80	250

Reel Tape Dimensions

Tape Dimensions



Reel Dimensions



(mm)

Type	RD-18B	RD-7B	NRS-701	NRS-771
A	2.0	4.0	2.7	3.3
B	13.2	20.3	16.0	32.0
W	24.0	32.0	24.0	44.0
F	11.5	14.2	11.5	20.2
E	1.75	1.75	1.75	1.75
G	-	28.4	-	40.4
P1	8.0	8.0	8.0	8.0
P2	2.0	2.0	2.0	2.0
P0	4.0	4.0	4.0	4.0
D0	1.55	1.55	1.55	1.55
D1	-	1.55×1.75	-	1.55×1.75
T1	0.3	0.3	0.4	0.4
T2	(3.0)	(3.0)	(3.2)	(4.2)

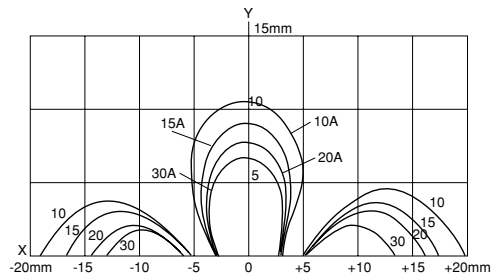
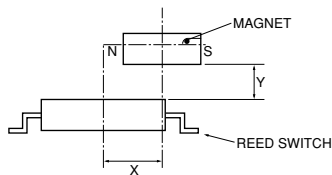
(mm)

A	250	330	330	382
B	100	80	80	80
C	13.0	13.0	13.0	13.0
W	24.5	33.5	24.5	45.5

Standard number of Packages (piece/reel)	
RD-18B	1,000
RD-7B	2,000
NRS-701, 771	2,000

Example for operation characteristics

Driving Area by Means of Ferrite Magnet 5×5×7 (NRS-701)
Values in the graph indicates reed switch's pick up ampereturns.



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