

Surface Mount Reed Relays

Including coaxial types for up to 5GHz

**New
3 Volt
Version**

FEATURES

- **SoftCenter™** construction
- Highest quality instrumentation grade switches
- Encapsulated in plastic package with internal mu-metal screen for side-by-side mounting without magnetic interaction
- Insulation resistance greater than 10^{12} ohms for Form A devices
- Dry and mercury wetted switches available
- Wide range of switch configurations - 1 Form A, 1 Form B, 2 Form A and 1 Form C
- For R.F. or high speed digital applications, 50 or 75 ohms coaxial devices are available in the same small package
- 3, 5, and 12 volt coils are standard, with or without internal diode
- 100% tested for dynamic contact resistance

The Series 200 is a complete range of surface mount reed relays. Both dry and mercury wetted switches are available in a wide range of configurations including coaxial types for RF up to 5GHz, or high speed digital switching with a step response time of less than 30ps. Please contact our technical department for supplementary RF data.

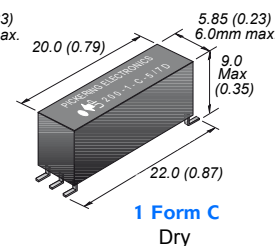
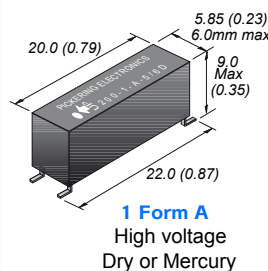
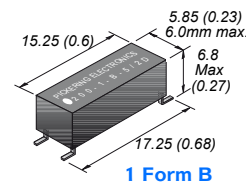
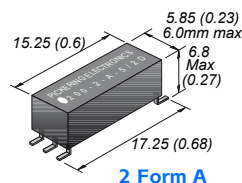
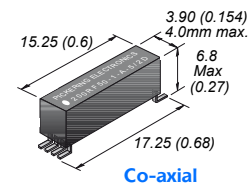
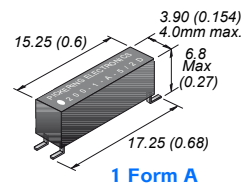
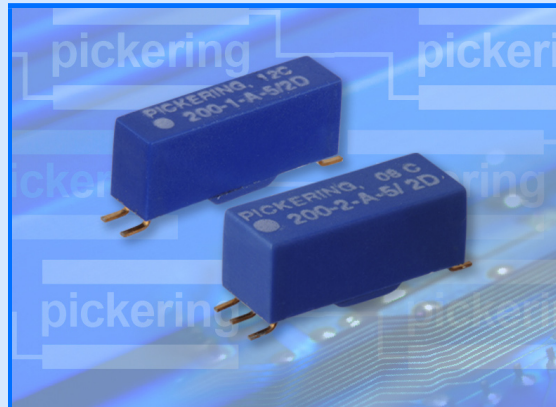
The special high temperature plastic package will withstand the temperatures associated with Infra-red or vapour phase reflow soldering processes. A flexible inner encapsulant protects the sensitive glass/metal reed switch seals - this is a very big advantage over the more usual hard moulded package.

Switch Ratings - Dry Switches

- 1 Form A (energize to make), 10 watts at 200V
- 1 Form A (energize to make), 15 watts at 200V
- 1 Form A (energize to make), 10 watts at 500V
- Coaxial 50Ω (energize to make), 10 watts at 200V
- Coaxial 75Ω (energize to make), 10 watts at 200V
- 1 Form B (energize to break), 10 watts at 200V
- 1 Form C (change-over), 3 watts at 200V
- 2 Form A (energize to make), 10 watts at 200V

Switch Ratings - Mercury Wetted Switches

- 1 Form A (energize to make), 50 watts at 500V
- 1 Form A (Position insensitive), 30 watts at 350V



Dimensions in Millimetres (Inches in brackets)

www.pickeringrelay.com

Dry Reed - Series 200 switch ratings

The contact ratings for each switch type are shown below:

Sw. No	Switch form	Power rating	Max. switch current	Max. carry current	Max. switching volts	Special Features
1	A	15 Watts	0.75 Amp.	1.2 Amp.	200	General purpose
2	A or B	10 Watts	0.5 Amp.	1.2 Amp.	200	Low level
3	C	3 Watts	0.25 Amp.	1.2 Amp.	200	Change over
4	A	10 Watts	0.5 Amp.	1.2 Amp.	500	High Voltage

Switch no.2 is particularly good for switching low currents and/or voltages. It is the ideal switch for Automatic Test Equipment where cold switching techniques are often used. Where higher power levels are involved, switch no.1 is a more suitable choice.

Dry Relay - Coil data and type numbers

Device description	Type number	Coil (V)	Coil resist. (ohms)	Contact resist. max. (initial)	Package Number
1 Form A (energize to make) General Purpose Sw. No. 1	200-1-A-5/1D	5	500	0.15Ω	1
	200-1-A-12/1D	12	1000	0.15Ω	
1 Form A (energize to make) Low Level Switch No. 2	200-1-A-3/2D	3	250	0.12Ω	1
	200-1-A-5/2D	5	500	0.12Ω	
	200-1-A-12/2D	12	1000	0.12Ω	
1 Form A 50 ohms coaxial Low Level Switch No. 2	200RF50-1-A-5/2D	5	250	0.12Ω	2
	200RF50-1-A-12/2D	12	600	0.12Ω	
1 Form A 75 ohms coaxial Low Level Switch No. 2	200RF75-1-A-5/2D	5	250	0.12Ω	2
	200RF75-1-A-12/2D	12	600	0.12Ω	
1 Form A (energize to make) High Voltage Switch No. 4	200-1-A-5/4D	5	500	0.15Ω	5
	200-1-A-12/4D	12	1000	0.15Ω	
1 Form C (change-over) Switch No. 3	200-1-C-5/3D 200-1-C-12/3D	5 12	500 1000	0.20Ω	6
1 Form B (energize to break) Low Level Switch No. 2	200-1-B-5/2D	5	750	0.12Ω	4
	200-1-B-12/2D	12	1000	0.12Ω	
2 Form A (energize to make) Low Level Switch No. 2	200-2-A-5/2D	5	400	0.12Ω	3
	200-2-A-12/2D	12	1000	0.12Ω	

When an internal diode is required, the suffix D is added to the part number as shown in the table. If a diode is not required, the D suffix should be omitted.

Mercury Reed - Series 200 switch ratings

The contact ratings for each switch type are shown below:

Sw. No	Switch form	Power rating	Max. switch current	Max. carry current	Max. switching volts	Special Features
6	A	50 Watts	2 Amp.	3 Amp.	500	Standard Mercury
8	A	30 Watts	0.75 Amp.	2 Amp.	350	Position Insensitive

Mercury Relay - Coil data and type numbers

Device type	Type Number	Coil voltage	Coil resistance	Max. contact resistance (initial)
1 Form A (energize to make) Switch No. 6	200-1-A-5/6D	5	140	0.075 Ohms
	200-1-A-12/6D	12	500	0.075 Ohms
1 Form A (energize to make) Position Insensitive Switch No. 8	200-1-A-5/8D	5	140	0.100 Ohms
	200-1-A-12/8D	12	500	0.100 Ohms

When an internal diode is required, the suffix D is added to the part number as shown in the table. If a diode is not required, the D suffix should be omitted.

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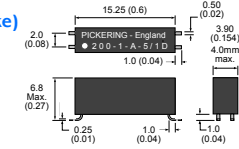
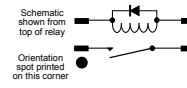
ISO9001
Manufacture of Reed Relays
FM 29036

Pin configuration and dimensional data

Dimensions in Millimetres (Inches in brackets).

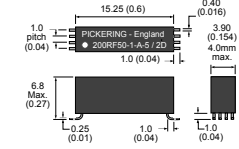
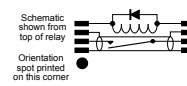
1 Form A (Energize to make)

Package Number 1



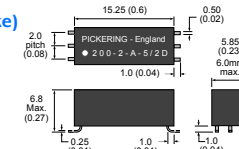
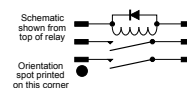
1 Form A (Coaxial)

Package Number 2



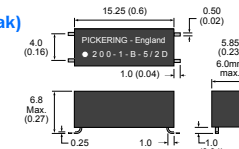
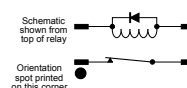
2 Form A (Energize to make)

Package Number 3



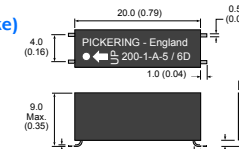
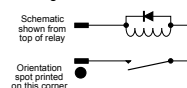
1 Form B (Energize to break)

Package Number 4



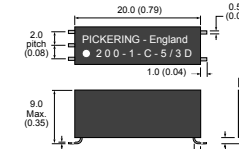
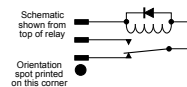
1 Form A (Energize to make)

Package Number 5



1 Form C (Changeover)

Package Number 6



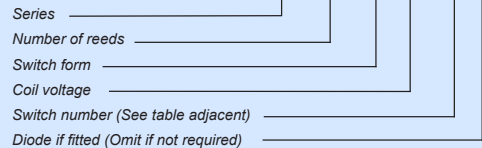
Mercury Relays

With the exception of the position insensitive type, mercury relays should be mounted vertically in the direction of the arrow.

Order Code

The following example indicates data required to process your order promptly:

200 - 1 - A - 5 / 2 D



Help !!!

If you need any technical advice or help in any way, please telephone our Technical Sales Department. There is a limit to how much data we can put on a sales leaflet and we will always be pleased to discuss Pickering reed relays with you.

Please ask us for a FREE evaluation sample