High Voltage SIL/SIP Reed Relays

Series 104

- Up to **4 kV** stand-off NEW
- Small size. Stacking on 0.25 Inches pitch
- Internal mu-metal magnetic screen
- Optional electrostatic screen
 NEW
- 104HT High temperature versions available
- One or two switches in a single package
- 1 Form A, 2 Form A & 1 Form B configurations
- Dry and mercury wetted switches available
- 5 V, 12 V or 24 V Coils with optional internal diode
- Ideal for mixed semiconductor testers, renewable energies and much more (see below)
- Additional build options are available including many pin configurations
- Many benefits compared to industry standard relays (see last page)

The Series 104 reed relays are ideal for mixed signal semiconductor testers, cable testing, monitoring photovoltaic efficiency, EVs & charge point testing, mining gas analysis, medical electronics, in-circuit test equipment, high voltage instrumentation, and much more.

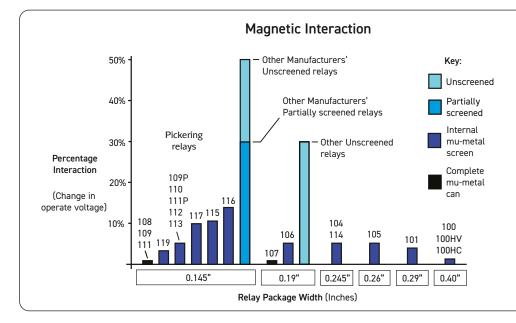
Where mains voltages are switched, for example to control and isolate S.C.R. or triac gates, they are an ideal choice. The range features an internal mu-metal screen to eliminate problems that would otherwise be experienced due to magnetic interaction when they are closely stacked.

There is an option for an electrostatic shield between the switch and the coil to help minimise noise between the coil drive and high voltage circuits.

Where extended operating temperature ranges are required, options are designed to work from -40 °C to +125 °C, or custom versions up to +150 °C.

Four types of dry switches are available, capable of standing-off 1.5, 2, 3 or 4 kV d.c. The 3 kV & 4 kV versions have an increased clearance between the switch and coil pins to accommodate the higher voltage. Even higher voltage ratings are available to special order, please contact our sales office for further information.

Mercury wetted devices are also available for applications where bounce free switching is required. These are rated at 1500 volts d.c. minimum stand-off, 500 volts d.c. switching at up to 50 watts.



Package Type

SSUE 3.0 JUL 2023



This chart demonstrates the percentage changes in operate

voltage due to magnetic

interaction depending on the

level of magnetic screening

offered from the relay package.

For more information on

magnetic interaction click here.

Switch Ratings - Dry Switches

1 Form A (energize to make)	1 Form B (energize to break)	2 Form A (energize to make)
1500 V d.c. min stand-off 1000 V d.c. switching at 25 W	1500 V d.c. min stand-off 1000 V d.c. switching at 25 W	1500 V d.c. min stand-off 1000 V d.c. switching at 25 W
2000 V d.c. min stand-off 1000 V d.c. switching at 25 W	2000 V d.c. min stand-off 1000 V d.c. switching at 25 W	2000 V d.c. min stand-off 1000 V d.c. switching at 25 W
3000 V d.c. min stand-off 1000 V d.c. switching at 25 W	-	-
4000 V d.c. min stand-off 1000 V d.c. switching at 25 W	_	-

Switch Ratings - Mercury Wetted Switches

1 Form A (energize to make)	2 Form A (energize to make)
1500 V d.c. min stand-off	1500 V d.c. min stand-off
500 V d.c. switching at 50 W	500 V d.c. switching at 50 W

Dry Reed: Series 104 switch ratings - contact ratings for each switch type

Switch No	Switch form	Power rating	Max. switch current	Max. carry current	Max. switching volts	Min. stand-off volts	Life expectancy ops typical (see Note ¹)	Operate time inc bounce (max)	Release time	Special features
1	A or B	25 W	1.0A	1.5 A	1000	1500	108	1.0 ms	0.3 ms	High voltage
2	A or B	25 W	1.0 A	1.5 A	1000	2000	10 ⁸	1.0 ms	0.3 ms	High voltage
3	А	25 W	1.0A	1.5 A	1000	3000	10 ⁸	1.0 ms	0.3 ms	High voltage
4	А	25 W	1.0 A	1.5 A	1000	4000	10 ⁸	1.0 ms	0.3 ms	High voltage

Note¹: Life Expectancy

The life of a reed relay depends upon the switch load and end of life criteria. For example, for an 'end of life' contact resistance specification of 1 Ω , switching low loads (10 V at 10 mA resistive) or when 'cold' switching, typical life is approx 1 x 10⁹ ops. At the maximum load (resistive), typical life is 1 x 10⁷ ops. In the event of abusive conditions, e.g. high currents due to capacitive inrushes, this figure reduces considerably. Pickering will be pleased to perform life testing with any particular load condition.

Operating Voltages - Standard

Coil voltage - nominal	Must operate voltage - maximum at 25°C	Must release voltage - minimum at 25°C
5 V	3.75 V	0.5 V
12 V	9 V	1.2 V
24 V	18 V	2.4 V

Operating Voltages - HT (High Temperature) Versions

Coil voltage - nominal	Must opera	ate voltage	Must release voltage				
	maximum at 25°C	maximum at 125°C	minimum at 25°C	minimum at 125°C			
5 V	2.75 V	3.75 V	0.5 V	0.5 V			
12 V	6 V	9 V	1.2 V	1.2 V			
24 V	12 V	18 V	2.4 V	2.4 V			



Environmental Specification/Mechanical Characteristics

In applications where a higher or lower operating temperature range is required, the 104HT range has been designed to maintain optimum performance from -40 °C to +125 °C.

Standard Operating Temperature Range	-20 °C to +85 °C
Standard Storage Temperature Range	-35 °C to +100 °C
104HT Operating Temperature Range	-40 °C to +125 °C
104HT Storage Temperature Range	-40 °C to +150 °C
Shock Resistance	50 g
Vibration Resistance (10 - 2000 Hz)	20 g
Soldering Temperature (max) (10 s max)	270°C
Washability (Proper drying process is recommended)	Fully Sealed

Extended Operating Temperature Range

With the copper coil winding wire having a resistance/temperature coefficient of approximately 0.4% per °C, changes in temperature will result in changes in operating voltage. A standard reed relay is designed to have optimum performance up to the maximum operating temperature of +85 °C, the 104HT range has increased coil drive to ensure the same performance up to 125 °C, and with certain considerations, up to +150 °C. For more information, see our Temperature guide or contact techsales@pickeringrelay.com



Dry Relay: Series 104 Coil Data and Type Numbers

Device Type	Type Number	Coil	Coil	Max. contact	(minimun	resistance n at 25 °C) Note⁴)	(typ	itance ical) Note²)	
		(V)	resistance	resistance (initial)	Switch to coil	Across switch	Closed switch to coil	Across open switch	
1 Form A	104-1-A-5/1D	5	375 Ω						
Switch No. 1 (1.5 kV)	104-1-A-12/1D	12	1000 Ω	0.15Ω	10 ¹² Ω	10 ¹² Ω	2.5 pF	0.1 pF	
Package Type 1*	104-1-A-24/1D	24	3000 Ω						
1 Form A	104-1-A-5/2D	5	375 Ω						
Switch No. 2 (2 kV)	104-1-A-12/2D	12	1000 Ω	0.15 Ω	10 ¹² Ω	10 ¹² Ω	2.5 pF	0.1 pF	
Package Type 1*	104-1-A-24/2D	24	3000 Ω						
1 Form A	104-1-A-5/3D	5	220 Ω			10 ¹² Ω			
Switch No. 3 (3 kV)	104-1-A-12/3D	12	500 Ω	0.15Ω	$10^{12}\Omega$		2.5 pF	0.1 pF	
Package Type 2	104-1-A-24/3D	24	3000 Ω						
1 Form A	104-1-A-5/4D	5	220 Ω				2.5 pF		
Switch No. 4 (4 kV)	104-1-A-12/4D	12	500 Ω	0.15Ω	10 ¹² Ω	10 ¹² Ω		0.1 pF	
Package Type 2	104-1-A-24/4D	24	3000 Ω						
1 Form B	104-1-B-5/1D	5	750 Ω						
Switch No. 1 (1.5 kV)	104-1-B-12/1D	12	2000 Ω	0.20 Ω	10 ¹² Ω	10 ¹² Ω	2.5 pF	0.1 pF	
Package Type 3	104-1-B-24/1D	24	3000 Ω						
1 Form B	104-1-B-5/2D	5	750 Ω						
Switch No. 2 (2 kV)	104-1-B-12/2D	12	2000 Ω	0.20 Ω	10 ¹² Ω	10 ¹² Ω	2.5 pF	0.1 pF	
Package Type 3	104-1-B-24/2D	24	3000 Ω						
2 Form A	104-2-A-5/1D	5	250 Ω				C	Car	
Switch No. 1 (1.5 kV)	104-2-A-12/1D	12	750 Ω	0.20 Ω	10 ¹² Ω	10 ¹² Ω	See Note ³	See Note ³	
Package Type 4	104-2-A-24/1D	24	2000 Ω					NULE	
2 Form A	104-2-A-5/2D	5	250 Ω				Car	C.c.	
Switch No. 2 (2 kV)	104-2-A-12/2D	12	750 Ω	0.20 Ω	10 ¹² Ω	10 ¹² Ω	See Note ³	See Note ³	
Package Type 4	104-2-A-24/2D	24	2000 Ω						

When an internal diode is required, the suffix D is added to the part number as shown in the table.

* Package Type 2 available, contact Pickering for more details.

Note²: Capacitance across open switch

The capacitance across the open switch was measured with other connections guarded.

Note³: Capacitance values

The value will depend upon on the mode of connection/guarding of unused terminals. Please contact technical sales for details.

Note⁴: Insulation resistance

Insulation resistance will reduce at higher temperatures. For more information on temperature effects **click here**, or **contact Pickering** for more in depth guidance.



	Torra Number	Coil	Coil	Max. contact	(minimun	resistance n at 25 °C) Note³)	Capacitance (typical) (see Note²)		
Device Type	Type Number	(V)	resistance	resistance (initial)	Switch to coil	Across switch	Closed switch to coil	Across open switch	
1 Form A (ES Shielded)	104ES-1-A-5/1D	5	150 Ω						
Switch No. 1 (1.5 kV)	104ES-1-A-12/1D	12	600 Ω	0.15 Ω	10 ¹² Ω	10 ¹² Ω	2.5 pF	0.1 pF	
Package Type 5	104ES-1-A-24/1D	24	2000 Ω						
1 Form A (ES Shielded)	104ES-1-A-5/2D	5	150 Ω						
Switch No. 2 (2 kV)	104ES-1-A-12/2D	12	600 Ω	0.15 Ω	$10^{12} \Omega$	$10^{12} \Omega$	2.5 pF	0.1 pF	
Package Type 5	104ES-1-A-24/2D	24	2000 Ω						
1 Form A (ES Shielded)	104ES-1-A-5/3D	5	50 Ω						
Switch No. 3 (3 kV)	104ES-1-A-12/3D	12	400 Ω	0.15 Ω	10 ¹² Ω	$10^{12} \Omega$	2.5 pF	0.1 pF	
Package Type 5	104ES-1-A-24/3D	24	1200 Ω						

Dry Relay: Series 104 (Electrostatic Shield) Coil Data and Type Numbers

When an internal diode is required, the suffix D is added to the part number as shown in the table.

Dry Relay: Series 104 (High Temperature) Coil Data and Type Numbers

	Tupe Number	Coil	Coil	Max. contact	(minimun	resistance n at 25 °C) Note³)	Capacitance (typical) (see Note²)		
Device Type	Type Number	(V)	resistance	resistance (initial)	Switch to coil	Across switch	Closed switch to coil	Across open switch	
1 Form A (HT High Temp)	104HT-1-A-5/1D	5	300 Ω						
Switch No. 1 (1.5 kV)	104HT-1-A-12/1D	12	750 Ω	0.15Ω	$10^{12}\Omega$	10 ¹² Ω	2.5 pF	0.1 pF	
Package Type 1	104HT-1-A-24/1D	24	3000 Ω						
1 Form A (HT High Temp)	104HT-1-A-5/2D	5	300 Ω		10 ¹² Ω	10 ¹² Ω	2.5 pF		
Switch No. 2 (2 kV)	104HT-1-A-12/2D	12	750 Ω	0.15Ω				0.1 pF	
Package Type 1	104HT-1-A-24/2D	24	3000 Ω						
1 Form A (HT High Temp)	104HT-1-A-5/3D	5	125 Ω						
Switch No. 3 (3 kV)	104HT-1-A-12/3D	12	500 Ω	0.15Ω	$10^{12} \Omega$	$10^{12} \Omega$	2.5 pF	0.1 pF	
Package Type 2	104HT-1-A-24/3D	24	2500 Ω						
1 Form A (HT High Temp)	104HT-1-A-5/4D	5	125 Ω						
Switch No. 4 (4 kV)	104HT-1-A-12/4D	12	500 Ω	0.15Ω	$10^{12} \Omega$	10 ¹² Ω	2.5 pF	0.1 pF	
Package Type 2	104HT-1-A-24/4D	24	2500 Ω						

When an internal diode is required, the suffix D is added to the part number as shown in the table.

Note²: Capacitance across open switch

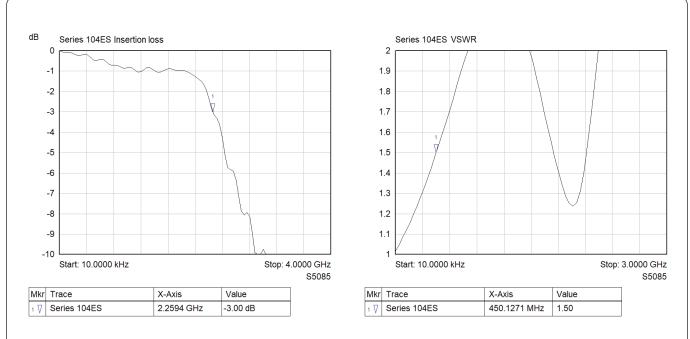
The capacitance across the open switch was measured with other connections guarded.

Note³: Insulation resistance

Insulation resistance will reduce at higher temperatures. For more information on temperature effects **click here**, or **contact Pickering** for more in depth guidance.

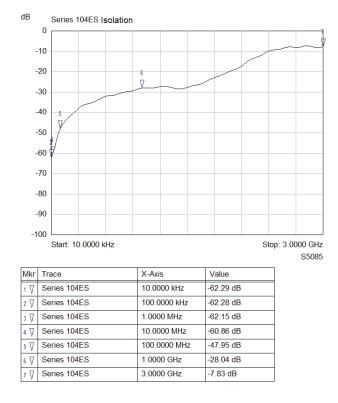


RF Plots for the 104ES Reed Relay



104ES Typical Insertion Loss Plot





104ES Typical Isolation Plot



Mercury Reed Relays

Mercury relays should be mounted vertically with **pin 1 uppermost**. Pin 1 is marked with a bar on the top face of the relay.



Mercury Reed: Series 104 switch ratings - contact ratings for each switch type

Switch No	Switch form	rating	Max. switch current		Max. switching volts	Min. stand-off volts	Life expectancy ops typical (see Note ¹)	Operate time inc bounce (max)	Release time	Special features
6	А	50 W	2A	3 A	500	1500	10 ⁸	1.5 ms	1.0 ms	Standard mercury

Note¹: Life Expectancy

The life of a reed relay depends upon the switch load and end of life criteria. For example, for an 'end of life' contact resistance specification of 1 Ω , switching low loads (10 V at 10 mA resistive) or when 'cold' switching, typical life is approx 1 x 10⁹ ops. At the maximum load (resistive), typical life is 1 x 10⁷ ops. In the event of abusive conditions, e.g. high currents due to capacitive inrushes, this figure reduces considerably. Pickering will be pleased to perform life testing with any particular load condition.

Mercury Relay: Series 104 Coil data and type numbers

Device Type	Type Number	Coil	Coil	Max. contact	(minimun	resistance n at 25 °C) Note⁴)	Capacitance (typical) (see Note²)	
Device Type	туре матьет	(V)	resistance	resistance (initial)	Switch to coil	Across switch	Closed switch to coil	Across open switch
1 Form A	104-1-A-5/6D	5	100 Ω		10 ¹² Ω	10 ¹¹ Ω	3 pF	
Switch No. 6 (1.5 kV)	104-1-A-12/6D	12	500 Ω	0.12 Ω				3 pF
Package Type 1 *	104-1-A-24/6D	24	1500 Ω					
2 Form A	104-2-A-5/6D 5		50 Ω				C	<u>Car</u>
Switch No. 6 (1.5 kV)	104-2-A-12/6D	12	275 Ω	0.15 Ω	10 ¹² Ω	10 ¹¹ Ω	See Note ³	See Note ³
Package Type 4	104-2-A-24/6D	24	1000 Ω				NOLE	note

When an internal diode is required, the suffix D is added to the part number as shown in the table.

* Package Type 2 available, contact Pickering for more details.

Note²: Capacitance across open switch

The capacitance across the open switch was measured with other connections guarded.

Note³: Capacitance values

The value will depend upon on the mode of connection/guarding of unused terminals. Please contact technical sales for details.

Note⁴: Insulation resistance

Insulation resistance will reduce at higher temperatures. For more information on temperature effects **click here**, or **contact Pickering** for more in depth guidance.

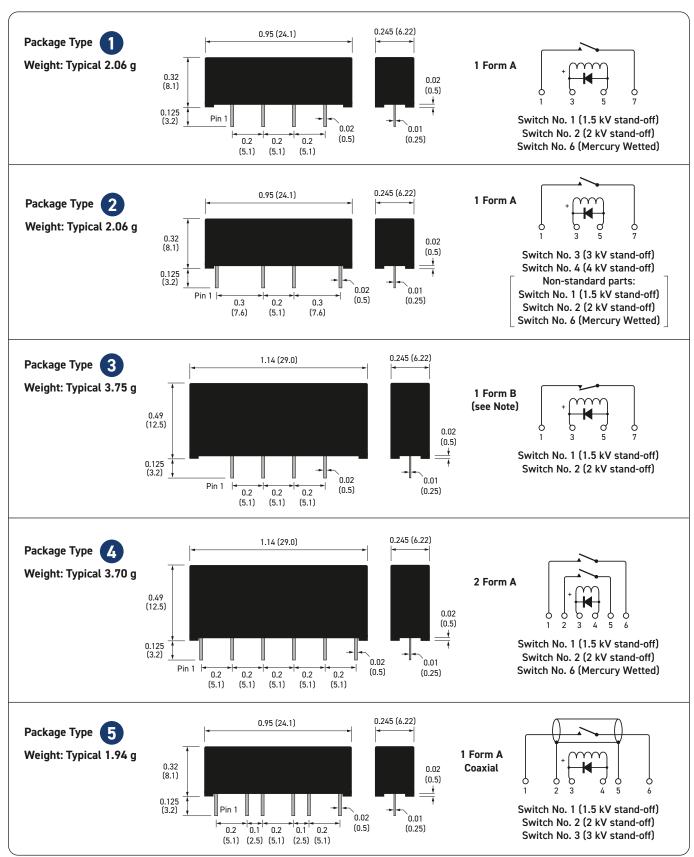
The technical information shown in this data sheet could contain inaccuracies or typographical errors. This information may be periodically changed or updated and these changes will be included in future versions of this data sheet.

For different values, latest specifications and product details, please contact your local Pickering sales office.

For FREE evaluation samples go to: pickeringrelay.com/samples



Specification



Pin Configuration, Weights and Dimensional Data (dimensions in inches, millimeters in brackets)

Important: Where the optional internal diode is fitted or for all Form B types, the correct coil polarity must be observed, as shown by the + symbol on the schematics.



Similar Relays Comparison

If the Series 104 is unsuitable for your application, Pickering also manufactures three other series of reed relays with similar characteristics, but in different package sizes.

Series Name		131-1-A		119-1-4	4	119-2-A	119	-1-B		104-1	-A & 104H	IT-1-A		1	04ES-1-	A
Physical Outline			Ņ	San Jacob				e la l	1			a for the				T
Depth		3.7 (0.145)			3.	7 (0.145)						6.3 (0.2	245)			
Width	mm (inches)	12.5 (0.49)	15.1 (0.595)	20.	1 (0.79) 15.1 (0.595)						24.1 (0.	.95)			
Height	(Inches)	6.6 (0.26)		6.6 (0.26) 8.9 (0.35)			8.9 (0.35)				8.2 (0.3	32)			
Pack	age Volume (mm³)	306	36	59	491	662	498		1 & 2 2 1245 1245				5 1245			
Туріса	ıl Weights (g)	0.58	0.0	67	0.74	1.06	0.	0.89 2.06		2.	06	1.94				
	Contact nfiguration	1-A (SPST)		1-A (SPST)		2-A (DPST)	1-B (SPNC)				1-A (SPST)			1-A (SPST)		
Reed	Switch Type	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Mercury Wetted	Dry	Dry	Dry	Dry	Dry
Stand-	off Voltage (V)	1500	1500	2000	3000	1500	1500	2000	1500	2000	1500	3000	4000	1500	2000	3000
Switchi	ng Voltage (V)	1000				1000			10	00	500	10	00	1000	1000	1000
Switching Current (A) 0.7 0.7								1	2		1	1	1	1		
Carry	Carry Current (A) 1.25 1.25							1.5 3 1.5			.5	1.5	1.5	1.5		
Switc	h Power (W)	10				10			2	5	50	2	25	25	25	25

Series Name		104-1-B		104-2-A			100HV-1-A			100HV-1-B		100HV-2-A		
Physical Outline									Constanting of		Torres and			
Depth	Depth Width (inches)		6.3 (0.245)					10.2 (0.40)			10.2 (0.40)		10.2 (0.40)	
Width			29 (1.14)					24.1 (0.95)			29 (1.14)		29 (1.14)	
Height		12.5 (0.49)					12.7 (0.50)			15.2 (0.60)		15.2 (0.60)		
Package Volume (mm³)		3 2284		4 2284			31	22	3122	44	196	44	96	
Туріса	Typical Weights (g)		3.75		3.7			6.99		8.75		8.75		
Contact Configuration		1-B (SPNC)		2-A (DPST)		1-A (SPST)			1-B (SPNC)		2-A (DPST)			
Reed	Switch Type	Dry	Dry	Dry	Dry	Mercury Wetted	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
Stand-	off Voltage (V)	1500	2000	1500	2000	1500	1500	2000	3000	1500	2000	1500	2000	
Switchi	Switching Voltage (V)		1000		1000		1000		1000		1000			
Switchi	Switching Current (A)		1		1		1		1		1			
Carry	Carry Current (A)		1.5		1.5		1.5		1.5		1.5			
Swite	Switch Power (W)		25		25		25		25		25			

Reed Relay Selection Tool

Because Pickering offer the largest range of high-quality reed relays, sometimes it can be difficult to find the right reed relay you require. That is why we created the Reed Relay Selector, this tool will help you narrow down our offering to get you the correct reed relay for your application. To try the tool today go to: pickeringrelay.com/reed-relay-selector-tool



Standard Build Options

The Series 104 Reed Relays are available with a number of standard build options to tailor them to your specific application. These options are detailed in the table below. If you decide to go ahead and specify one, or more, of these options you will be allocated a unique part number suffix.

Mechanical Build Options	Electrical Build Options
Special pin configurations or pin lengths	Different coil resistance
Special print with customer's own part number or logo	Different stand-off or switching voltage
Custom packaging possibility	Operate or de-operate time
Equivalents to competitors discontinued parts	Pulse capability
	Enhanced specifications
	Equivalents to competitors discontinued parts
	Non-standard coil voltages and resistance figures
	Special Life testing under customer's specific load conditions
	Specific environmental requirements
	Controlled thermal EMF possibility

Customization

If your specific requirements are not met by standard relay, or any of the standard build options, please speak to us to discuss producing a customized reed relay to service your specific application: pickeringrelay.com/contact

3D Models

Interactive 3D models of the complete range of Pickering relay products in STEP, IGS and SLDPRT formats can be downloaded from the website: pickeringrelay.com/3d-models

Part Number Description: 104 ES	- 1 - A - 5 / 2 D - xxx
Series	
ES Shielded or HT (High Temp)	
(omit if not required)	
Number of reeds	
Switch form	
Coil voltage	
Switch number (see tables on pages 2 & 7) $-$	
Diode if fitted (omit if not required)	
Unique suffix (if standard build option selected)

Help

If you need any technical advice or other help, please do not hesitate to contact our Technical Sales Department. We will always be pleased to discuss Pickering relays with you. email: techsales@pickeringrelay.com

Contact Us

UK Headquarters - email: sales@pickeringrelay.com | Tel. +44 1255 428141 USA - email: ussales@pickeringrelay.com | Tel. +1 781 897 1710 Germany - email: desales@pickeringtest.com | Tel. +49 89 125 953 160 France - email: frsales@pickeringtest.com | Tel. +33 9 72 58 77 00 Nordic - email: ndsales@pickeringtest.com | Tel. +46 340 69 06 69 Czech Republic: czsales@pickeringtest.com | Tel. +420 558-987-613 China - email: chinasales@pickeringtest.com | Tel. +86 4008 799 765



For a full list of agents, distributors and representatives visit: pickeringrelay.com/agents



10 Key Benefits of Pickering Reed Relays

Key Benefit	Pickering Reed Relays	Typical Industry Reed Relays	
1 Instrumentation Grade Reed Switches	Instrumentation Grade Reed Switches with vacuum sputtered Ruthenium plating to ensure stable, long life up to 5x10E9 operations.	Often low grade Reed Switches with electroplated Rhodium plating resulting in higher, less stable contact resistance.	- ²
2 Formerless Coil Construction	Formerless coil construction increases the coil winding volume, maximizing magnetic efficiency, allowing the use of less sensitive reed switches resulting in optimal switching action and extended lifetime at operational extremes.	Use of bobbins decreases the coil winding volume, resulting in having less magnetic drive and a need to use more sensitive reed switches which are inherently less stable with greatly reduced restoring forces.	Pickering former-less coil Typical industry coil wound on bobbin
3 Magnetic Screening	Mu-metal magnetic screening (either external or internal), enables ultra-high PCB side-by-side packing densities with minimal magnetic interaction, saving significant cost and space. Pickering Mu-Metal magnetic screen - interaction approx. 5%	Lower cost reed relays have minimal or no magnetic screening, resulting in magnetic interaction issues causing changes in operating and release voltages, timing and contact resistance, causing switches to not operate at their nominal voltages. Typical industry screen - interaction approx. 30%	X-Ray of Pickering mu-metal magnetic screen
4 SoftCenter™ Technology	SoftCenter [™] technology, provides maximum cushioned protection of the reed switch, minimising internal lifetime stresses and extending the working life and contact stability.	Transfer moulded reed relays (produced using high temperature/pressure), result in significant stresses to the glass reed switch which can cause the switch blades to deflect or misalign leading to changes in the operating characteristics, contact resistance stability and operating lifetime.	Pickering soft center protection of the reed switch
5 100% Dynamic Testing	100% testing for all operating parameters including dynamic contact wave-shape analysis with full data scrutiny to maintain consistency.	Simple dc testing or just batch testing which may result in non-operational devices being supplied.	Dynamic Contact Resistance Test
6 100% Inspection at Every Stage of Manufacturing	Inspection at every stage of manufacturing maintaining high levels of quality.	Often limited batch inspection.	
7 100% Thermal Cycling	Stress testing of the manufacturing processes, from -20°C to +85°C to -20°C, repeated 3 times.	Rarely included resulting in field failures.	+85°C
8 Flexible Manufacturing Process	Flexible manufacturing processes allow quick-turn manufacturing of small batches.	Mass production: Usually large batch sizes and with no quick-turn manufacturing.	FASI
9 Custom Reed Relays	Our reed relays can be customized easily, e.g. special pin configurations, enhanced specifications, non-standard coil or resistance figures, special life testing, low capacitance, and more.	Limited ability to customize.	
10 Product Longevity	Pickering are committed to product longevity; our reed relays are manufactured and supported for more than 25 years from introduction, typically much longer.	Most other manufacturers discontinue parts when they reach a low sales threshold; costing purchasing and R&D a great deal of unnecessary time and money to redesign and maintain supply.	Product 25+Years Longevity

For more information go to: pickeringrelay.com/10-key-benefits



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