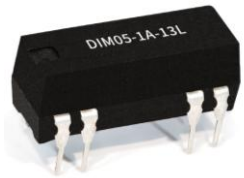
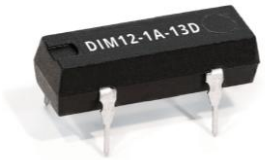
DATA SHEET

DIM Series
Reed Relays





Key Features and Benefits:

- Compatible with common dual-in-line PCB layouts and 14-pin DIP sockets.
- Fast reed relay operation with low drive power for general-purpose signal switching.
- Available with multiple contact forms, coil voltages, diode, and magnetic shielding options.
- IEC 61810 tested and UL listed, ensuring consistent performance in demanding environments

Key Markets and Applications:

- General Purpose, Measuring and Testing Devices & Others
- Telecommunications, Test and Measurement, Security & Others

Contact and Switching Characteristics :

Contact Data	Switch Model	Unit
	66/7	
Contact Material	Ru	
Rated Power (max.) Any DC combo of V&A not to exceed max. rated power	20	W
Switching Voltage (max.) DC or peak AC (Limited by FLRY-B Cable)	500	V
Switching Current (max.) DC or peak AC	0.5	A
Carry Current (max.) DC or peak AC	1.5	A
Contact Resistance (max.) @ 0.5V & 10mA, Measured with 40% Pull-In Overdrive	150	mOhm
Breakdown Voltage (min.) According to EN60255-27	1.5 – 2.0	kVDC
Operating Time (max.) Incl. Bounce; Measured with w/ 40% Pull-In Overdrive	0.7	ms
Release Time (max.) Measured without Coil Suppression	0.05	ms
Insulation Resistance (typ.) Rh<45%, 100V Test Voltage	10^{11}	Ohm
Capacitance (typ.) @ 10kHz across open Switch	0.5	pF

Part Number Configuration:

Ordering Code Structure:

DIM 00 – 1A – 13 X

SERIES | 1 | 2 | 3 | 4

CONFIGURATION OPTIONS:

1 NOMINAL VOLTAGE **[05, 12, 24]**
2 CONTACT FORM **[1A]**
3 PINOUT **[13]**
4 VERSION **[L, M, D, Q and HR]**

OPTIONS GLOSSARY:

L	Standard - Internal Magnetic Shield Only
D	Diode + Internal Magnetic Shield
M	External Magnetic Shield
Q	Diode with External Magnetic Shield
HR	High Resistance Coil

Contact Form Glossary :

Form A
NO = Normally Open Contacts
SPST = Single Pole Single Throw



Form B
NC = Normally Closed Contacts
SPST = Single Pole Single Throw

Form C
Changeover
SPDT = Single Pole Double Throw

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General Relay Characteristics:

(@ 20°C)

Relay Data	Condition	Value	Unit
Dielectric Strength Coil/Contact (min.)	According to EN60255-27	1.5	kVDC
Insulation Resistance Coil/Contact (min./typ.)	Rh<45%, 200V Test Voltage	10^{11}	Ohm
Capacitance Coil/Contact (typ.)	@10 kHz	1.2	pF
Shock Resistance (max.)	1/2 sine wave, 6md, 3-axis	50	g
Vibration Resistance (max.)	10 – 2,000 Hz	20	g
Operating Temperature (max.)	Surrounding of the relay's housing	-20 to 70	°C
Storage Temperature (max.)	Surrounding of the relay's housing	-35 to 90	°C
Soldering Temperature (max.)	5 sec. max.	260	°C
Washability Aqueous rinse suitable	Proper drying necessary	Fully Sealed	
UL listed component		NRNT2.E156887 / NRNT8.E156887	
RoHS / REACH		Yes	
Weight	Low Profile	1.4	g
	High Profile	2.0	g
Packaging		Tube per 25 pcs.	

Available Configurations and Key Electrical Parameters:

(@ 20°C)

Series	Ordering Code	Contact Form	Switch Model	Pinout Options (00)	Available Versions (X)	Breakdown Voltage [VDC typ.]	Nominal Coil Voltage [VDC typ.]	Coil Resistance [Ω nom.] +/- 10%	Coil Power [mW nom.]	Pull-In [VDC max.]	Drop-Out [VDC min.]	Inductance [mH typ.]
DIM	DIM05-1A-13(X)	1A	High Voltage	13	L, D, M, Q	1500	05	200	125	3.75	0.75	23
	DIM12-1A-13(X)					2000	12	1000	144	8.4	1.8	100
	DIM24-1A-13(X)					2000	24	2000	288	16.8	3.6	220
	DIM05-1A-13(X)HR	1A HR		13	L, D, M, Q	600	05	500	50	3.75	0.75	35

Pull-in Voltage, Drop-out Voltage, and Coil Resistance change by approximately 0.4% per °C relative to their values at 20 °C.
Nominal Coil Resistance tolerance at 20 °C is ±10%
HR = High Resistance Coil
Maximum coil voltage: 7.5 VDC for 5 V coils, 16 VDC for 12 V coils, 30 VDC for 24 V coils.

DIP Series
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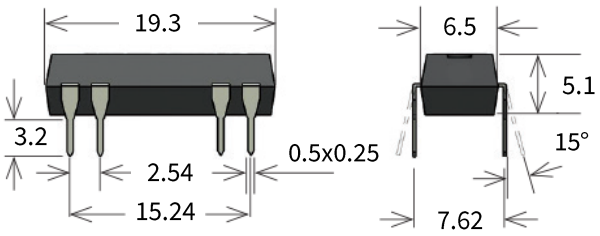
Dimensions (mm):

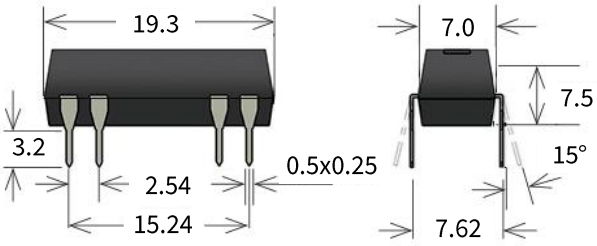
Low Profile

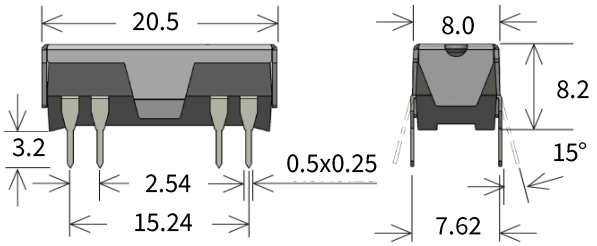


Magnetic shield version is not available at Low Profile dimension

High Profile

Tolerances acc. to DIN ISO 2768-m

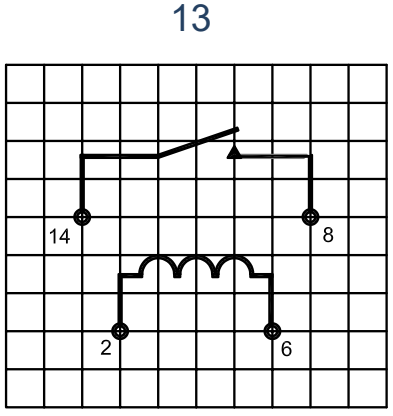




Package Size	Low Profile	High Profile
Contact Form	1A	1A
Available Versions	L	D, M, Q

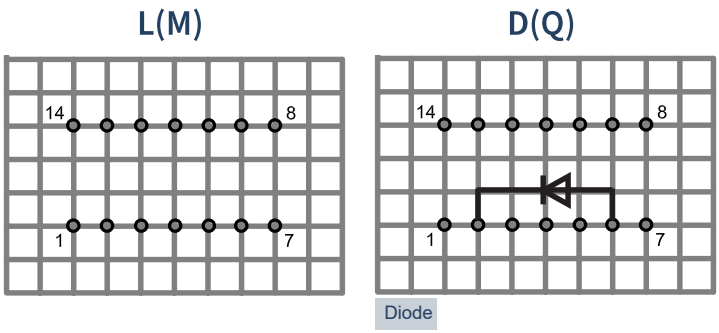
Pinout Options:

*View from top of component 2.54mm [0.10”] pitch grid



Options ( ) Versions with magnetic shield

*View from top of component 2.54mm [0.10”] pitch grid



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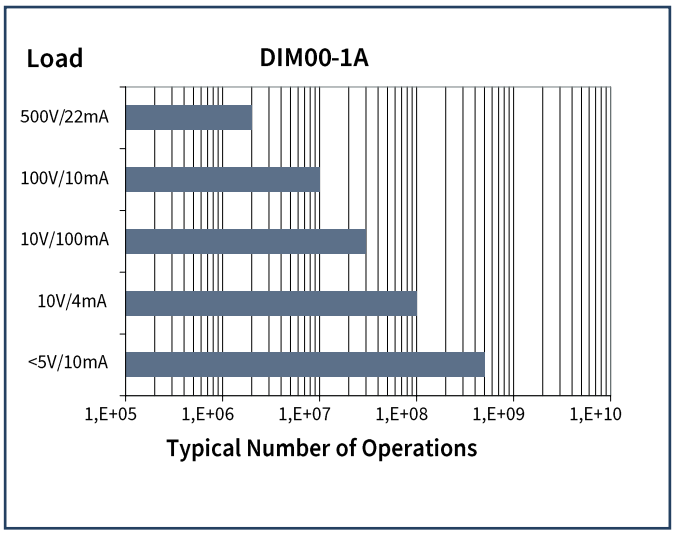
Lifecycles:



Handling and Assembly Instructions:

- Switching inductive and/or capacitive loads create voltage and/or current peaks, which may damage the relay. Protective circuits need to be used - see our website.
- External magnetic fields and magnetic effects, due to adjacent relays in high density matrices that may influence the relays' electrical characteristics, must be taken into consideration.
- Mechanical shock impacts, ex. dropping the relays, may cause immediate or post-installation failure.
- Suppressing coil diode can have a negative influence on total number of switching cycles, especially by switching high voltage.
- Wave soldering: maximum 260°C / 5 seconds.
- Reflow soldering: This relay is not suitable for reflow soldering.

Disclaimer:
Specifications refer to the standard product range and are provided for general guidance only. Product details may change without notice as part of ongoing technical development.
While every effort is made to ensure accuracy, this document may contain typographical or technical errors.
For complete, current, and application-specific information, refer to the product datasheet or contact your local sales representative.