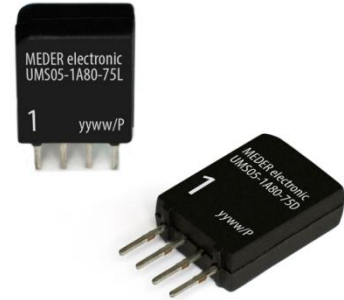
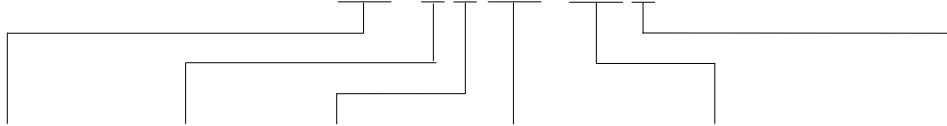


UMS Series Reed Relays



- Features: Ultra miniature Single-In Line Relay with Internal Magnetic Shield, UL-listed
- Applications: PCB & Semiconductor Test Systems, Automated Test Systems, High Density Assembly
- Markets: Test & Measurement, Telecommunication, ATE

Part Description: **UMS05-1A80-75X**



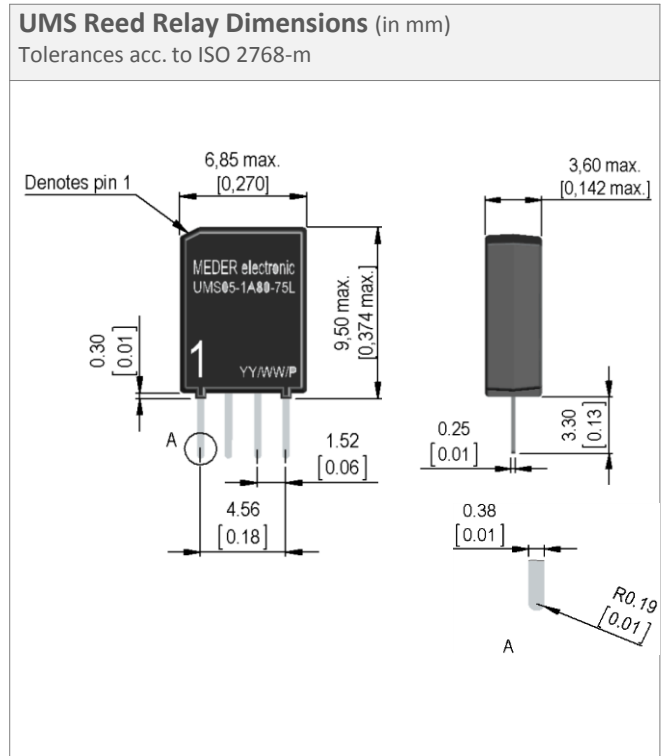
Nominal Voltage	Contact Quantity	Contact Form	Switch Model	Pin Out	Option
05	1	A	80	75	L, D
See page 3 for Glossary					

Contact Data (at 20°C)	Switch Model	Unit
	80 (A-Dry)	
Contact Material	Rhodium	
Rated Power (max.) Any DC combination of V&A not to exceed max rated power	10	W
Switching Voltage (max.) DC or peak AC	170	V
Switching Current (max.) DC or peak AC	0.5	A
Carry Current (max.) DC or peak AC	1.0	A
Contact Resistance (max.) @ 0.5V & 10mA, Measured with 40% Pull-In Overdrive	200	mOhm
Breakdown Voltage (min.) According to IEC 60255-27	210	VDC
Operating Time (max.) Including Bounce, Measured with 40% Pull-In Overdrive	0.2	ms
Release Time (max.) Measured without Coil Suppression	0.1	ms
Insulation Resistance (min. / typ.) Rh<45%, 100V Test Voltage	10 ¹¹ / 10 ¹²	Ohm
Capacitance (typ. / max.) @ 10kHz across Open Switch	0.2 / 0.4	pF

Coil Data (at 20°C)		Coil Voltage (VDC)		Coil Resistance (Ohm)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Coil Power (mW)
Contact Form	Switch Model	Nominal	Maximal	Typical (± 10 %)	Maximal	Minimal	Nominal
1A	80	05	7.5	400	3.75	0.5	62.5

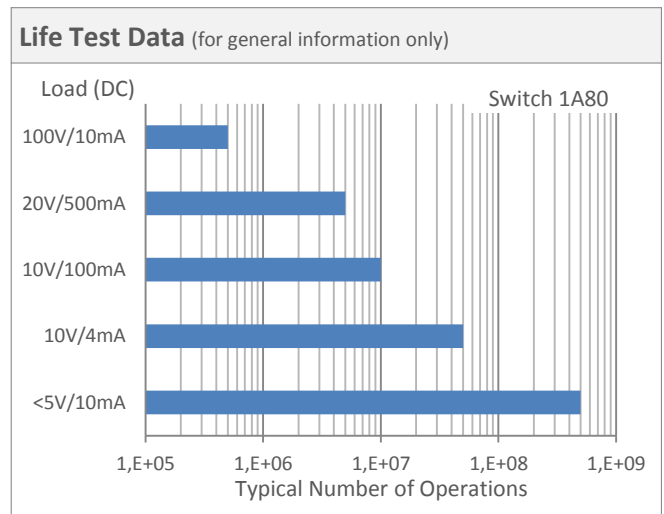
The Pull-In, Drop-Out Voltage and Coil Resistance will change at rate of 0.4% per °C

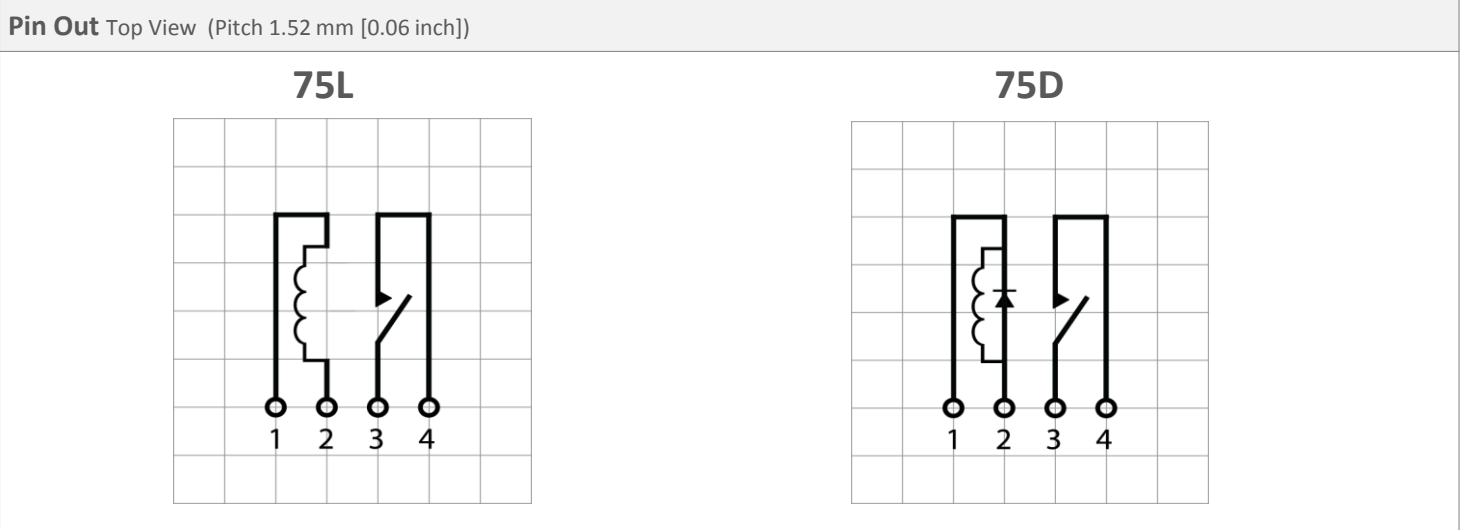
Relay Data (at 20°C)		Unit
Dielectric Strength Coil/Contact (min.) According to IEC 60255-27	1.5	kVDC
Insulation Resistance Coil/Contact (min./typ.) Rh<45%, 200V Test Voltage	10 ¹² / 10 ¹³	Ohm
Capacitance Coil/Contact (typ. / max.) @ 10 kHz with Closed Switch	0.9 / 1.1	pF
Shock Resistance (max.) 1/2 sine wave duration 11ms	50	g
Vibration Resistance (max.) 10 – 2,000 Hz	20	g
Operating Temperature (max.) Surrounding of the relay's housing	-20 to 85	°C
Storage Temperature (max.) Surrounding of the relay's housing	-35 to 100	°C
Soldering Temperature (max.) 5 seconds max.	260	°C
Washability Aqueous rinsing suitable. Proper drying necessary.	Fully Sealed	



Handling & 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, e.g. dropping the relays, may cause immediate or post-installation failure.
- Wave soldering: maximum 260°C / 5 seconds.





Glossary Contact Form	
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
Form E	Latching unchanged until an opposite impulse is present
UMS Relays are available only in "Form A" configuration	

Glossary Option	
L	Standard, with Magnetic Shield
D	with Diode, with Magnetic Shield
M	with Magnetic Shield, without Diode
Q	with Diode and Magnetic Shield
HR	High Resistance Coil
UMS Relays are available with "L" and "D" Option	



Please note: All technical specifications on this series datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

This series datasheet could contain technical inaccuracies or typographical errors. Changes are periodically made to the information herein. These changes will be incorporated in future revisions.

For deviating values, latest specifications and product details, please contact your nearest sales office.