

FRM18 RELAY



Miniature Slim Type Relay

FEATURES

Small Size & Slim Type (5mm wide & 12.5mm High)

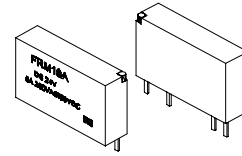
Switching capacity up to 5A

2KV Dielectric Strength

High Sensitivity 0.12W

Fully sealed type

   & VDE



SPECIFICATIONS

COIL RATING

RATED VOLTAGE	COIL RESISTANCE	RATED CURRENT	MUST OPERATE VOLTAGE	MUST DROPOUT VOLTAGE	MAXIMUM VOLTAGE	POWER CONSUMPTION (W)
V DC	$\Omega \pm 10\%$	(mA)	% OF RATED VOLTAGE (At +20 °C)			
5	208	24	70 Max.	5 Min.	120	0.12W Approx.
6	300	20				
9	675	13.3				
12	1200	10				0.18W Approx.
18	2700 $\pm 15\%$	6.7				For 24VDC
24	3200 $\pm 15\%$	7.5				

CHARACTERISTICS

Contact Arrangement	SPST(1 Form A)
Contact Material	Silvery Alloy
Contact Resistance	< 50m Ω (At 1A 6VDC)
Contact Rating (Resistive Load)	5A 250VAC/ 30VDC
Max. Switching Voltage	AC 250V/ DC 110V
Max. Switching Power	1250VA/ 150W
Operate Time (Initial)	10ms Max.
Release Time (Initial)	5ms Max.
Insulation Resistance	1000M Ω Min. (at 500V DC)
Dielectric Strength	1000V AC (50Hz/min.) Between open contacts 2000VAC (50Hz/min.) Between coil and contact
Surge Voltage	4000V (1.2 X 50 μ s)
Shock Resistance	Functional : 147m/s ² 11ms Endurance : 980m/s ² 6ms
Vibration Resistance	1.5mm Double Amplitude 10 - 55Hz
Ambient Temperature	-40°C to +70°C
Humidity	5 - 85% RH
Operation Life	Electrical : 3A : 1x10 ⁵ 5A : 1x10 ⁴ Mechanical : 2x10 ⁷
Weight	3g Approx.

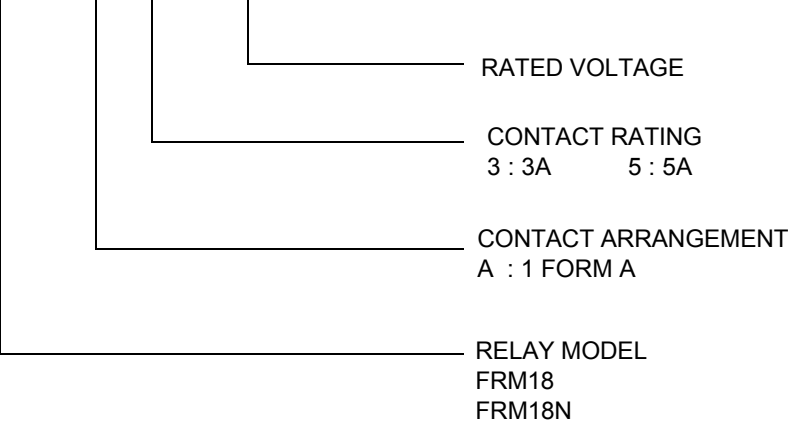
[Specifications are subject to change without notices.]

FRM18 RELAY



ORDERING INFORMATION

FRM18 A - 5 DC 12V

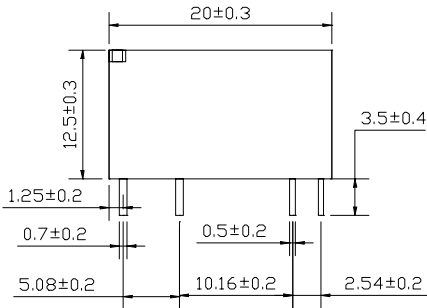


Note : Pb-Free and RoHS compliant relays are available.
For ordering, please add suffix "Pb-Free" or "RoHS" to standard relay part numbers.

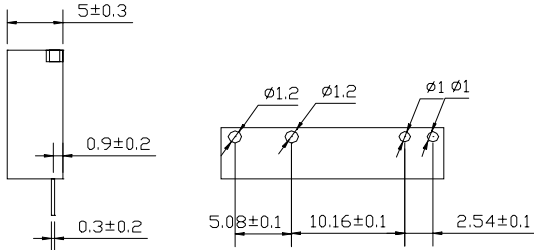
For example : FRM18A-5 DC 12V "Pb-Free" for Pb-Free Relay
For example : FRM18A-5 DC 12V "RoHS" for RoHS Compliant Relay

DIMENSIONS (UNIT:mm)

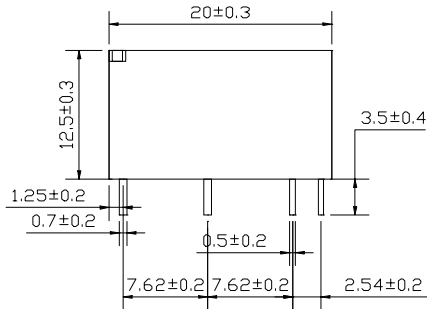
FRM18



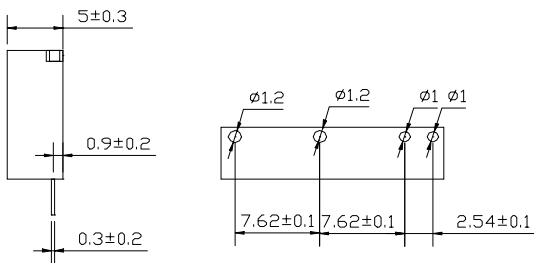
PCB LAYOUT



FRM18N



PCB LAYOUT



WIRING DIAGRAM

