

FRS13M



Car Control Micro PCB Relay

- Light weight and compact size
- Switching capacity up to 25A motor lock load
- High performance PCB relay
- Car automatic applications: power window, power door lock, seat adjustment, sunroof, wipe control, etc.
- Fully sealed version

Technical data

Characteristics

- Contact Arrangement: SPST (1 Form A), SPDT (1 Form C)
- Contact Material: Silver Alloy
- Contact Resistance: 100mΩ Max.
- Contact Rating: 25A 14VDC (Motor Load)
- Switching Current: 30A Max.
- Switching Voltage: 16V Max.
- Operate Time (Initial): 10 ms Max.
- Release Time (Initial): 5 ms Max.
- Insulation Resistance: 100MΩ Min. (500V DC)
- Dielectric Strength: 500V AC (50Hz/min.)
- Shock Resistance: 980m/s² 11ms
- Vibration Resistance: 43.1 m/s² 10Hz-500Hz
- Ambient Temperature: -40 °C to +85 °C (F: -40 °C to +105 °C)
- Operation Life:
 - Mechanical: 10⁶
 - Electrical: 10⁵
- Weight: 4.1g Approx.

Coil rating

Rated Voltage (VDC)	Coil Resistance Ω +/- 10%	Rated Current (mA)	Must operate voltage VDC	Must dropout voltage VDC	Maximum voltage VDC	Power consumption (W)
			(at +20 °C)			
12	225	53.5	7.2 Max.	1.0 Min.	16	0.64
	180	66.7	6.5 Max.	1.0 Min.	16	0.8

Ordering information

FRS13M	C	-	S	1	DC 12V	F	
							NIL: Standard (-40 °C ~85 °C) F : High temperature (-40 °C ~ 105 °C)
							Rated voltage
							Power consumption: 1: 0.64W 2: 0.8W
							NIL: Dust cover S : Sealed type
							Contact arrangement: A: 1 Form A C: 1 Form C
							Relay model

DIMENSIONS (mm)

