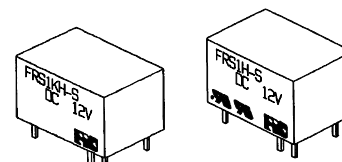# FRS1 *RELAY*

Subminiature SPDT RELAY

FEATURES

Low coil power consumption

Small size and low cost

PCB mounting, DIL pitch terminal

Standard and high sensitive operation use

Dust cover or sealed type

Recognized File No: E141516(N)

SPECIFICATIONS

COIL RATING

RATED VOLTAGE (V DC)	COIL RESISTANCE Ω +/- 10 %			MUST OPERATE VOLTAGE	MUST DROPOUT VOLTAGE	MAXIMUM VOLTAGE	POWER CONSUMPTION
	FRS1(K)B	FRS1(K)	FRS1(K)H	% OF RATED VOLTAGE (AT +20°C)			(W)
3	20	25	45	75 Max.	10 Min.	110 Max.	FRS1(K)B: 0.45 FRS1(K) : 0.36 FRS1(K)H: 0.20
5	56	70	120				
6	80	100	180				
9	180	220	400				
12	320	400	700				
24	1280	1600	2800				

CHARACTERISTICS

Contact Arrangement	1 Form C (SPDT)
Contact Material	Silver Alloy (Gold Flash)
Contact Resistance	50mΩ Max.
Contact Rating (Resistive Load)	1A 125VAC / 30VDC 2A 125VAC / 30VDC 3A 125VAC / 30VDC 5A 125VAC / 30VDC (Only available for "B" type -- 0.45W)
Switching Voltage	DC60V Max. AC220V Max.
Operate Time (Initial)	5ms Max.
Release Time (Initial)	5ms Max.
Insulation Resistance	100MΩ Min. (500V DC)
Dielectric Strength	500Vrms, 1 minute between open contacts 500Vrms, 1 minute between coil and contact
Shock Resistance	10g Approx.
Vibration	10-55Hz, Double Amplitude 1.5mm
Ambient Temperature	-25°C to +75°C
Operation Life	Mechanical : 10^7 Electrical : 10^5
Weight	4g Approx.

[Specifications are subject to change without notices.]

FRS1 *RELAY*

ORDERING INFORMATION

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FRS1   H - S 3 - DC12V
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RATED VOLTAGE

CONTACT RATING

NIL: 1AMP
2 : 2AMP
3 : 3AMP
5 : 5AMP (For "B" TYPE ONLY)

NIL : HAND SOLDER
S : SEALED TYPE

NIL : 0.36W
B : 0.45W (AVAILABLE WITH 5AMP)
H : 0.2W HIGH SENSITIVE

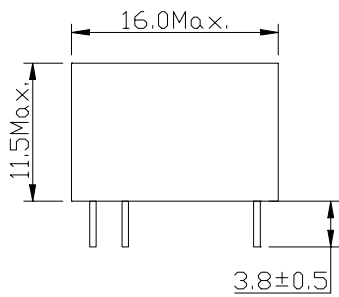RELAY MODEL
FRS1
FRS1K
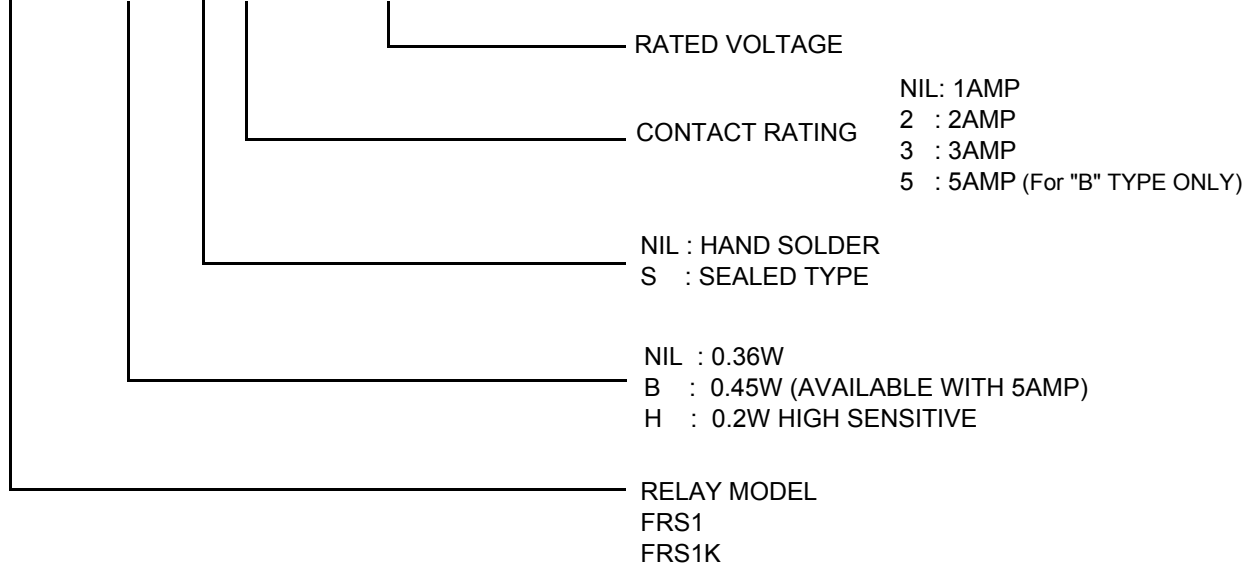
Note : Pb-Free and RoHS compliant relays are available.
For ordering, please add suffix "Pb-Free" or "RoHS" to standard relay part numbers.

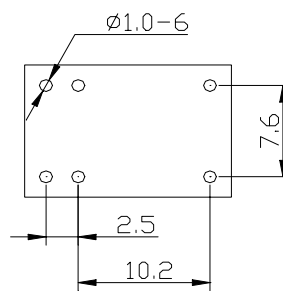**For example : FRS1-S3 DC 12V "Pb-Free"   for Pb-Free Relay**
For example : FRS1-S3 DC 12V "RoHS"   for RoHS Compliance Relay
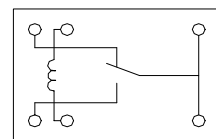
DIMENSIONS (UNIT:mm)

FRS1

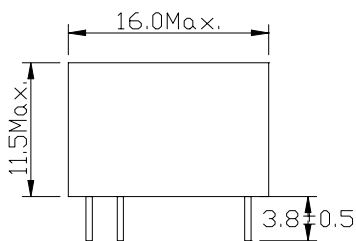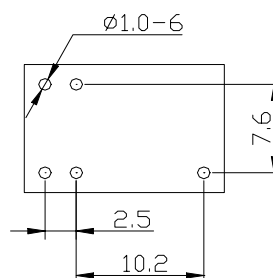MOUNTING HOLES

TERMINAL ARRANGEMENT (BOTTOM VIEW)

FRS1K

MOUNTING HOLES

TERMINAL ARRANGEMENT (BOTTOM VIEW)