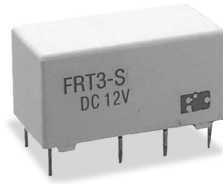


**FRT3**



- Subminiature and Latching Dip Relay
- 2 Form C contact
- High switching capacity 60W 125VA
- High sensitivity - 150mW (single side stable) and 75mW (latching)
- Sealed type construction

Pending

**Technical data**

**Characteristics**

- Contact Arrangement: DPDT (2 Form C)
- Contact Material: Silver Alloy, Gold Clad
- Contact Resistance: 50mΩ Max.
- Contact Rating (Resistive Load): 2A 30VDC 1A 125VAC
- Switching Voltage: DC 220V AC 250V Max.
- Switching Power: 60W 125VA Max.
- Switching Current: 2A Max.
- Carrying Current: 5A Max.
- Coil Nominal Power:
  - Single Side Stable - Latching 2 Coils  
Standard 200mW Sensitive 150mW
  - Latching 1 Coil  
Standard 100mW Sensitive 75mW
- Operate Time (Initial): 4 ms Max.
- Release Time (Initial): 3 ms Max.
- Bounce Time: 1.5ms
- Set Time (Latching): 3ms
- Reset Time (Latch Operate Time - Initial): 3ms
- Insulation Resistance: 1000MΩ (500V DC)
- Dielectric Strength:
  - between contacts: 1000Vrms/1 minute
  - between contact and coil:  
For Single Side Stable: 1500Vrms/1 minute  
For Latching Type (Single coil or Double coils):  
1000Vrms/1 minute
- Shock Resistance: 490m/s<sup>2</sup> (50g) Functional  
980m/s<sup>2</sup> (100g) Destructive
- Vibration: 20g 10-55Hz
- Ambient Temperature: -40 °C to +85 °C
- Humidity: 98% +40 °C
- Operation Life:
  - Mechanical: 10<sup>8</sup>
  - Electrical: 10<sup>5</sup> (2A 30VDC) or 5 x 10<sup>5</sup> (1A 30VDC)
- Weight: 5g Approx.

**Coil rating**

**FRT3-S - Single Side Stable (Standard 200mW)**

**FRT3H-S - Single Side Stable (Sensitive 150mW)**

Coil Voltage (V CD)	Pick-up Voltage (V DC) max	Drop-out Voltage (V DC) min	Coil Resistance Ω +/- 10%	Max allow Voltage (V DC)	Coil Voltage (V CD)	Pick-up Voltage (V DC) max	Drop-out Voltage (V DC) min	Coil Resistance Ω +/- 10%	Max allow Voltage (V DC)
5	3.5	0.5	125	10	5	4	0.5	167	11.5
6	4.2	0.6	180	12	6	4.8	0.6	240	13.8
9	6.3	0.9	405	18	9	7.2	0.9	540	20.8
12	8.4	1.2	720	24	12	9.6	1.2	960	27.7
15	10.5	1.5	1125	30	15	12.0	1.5	1500	34.6
24	16.8	2.4	2880	48	24	19.2	2.4	3840	55.4
48	36.0	4.8	11520	96					

**FRT3-SL2 - Latching 2 Coils (Standard 200mW)**

Coil Voltage (V CD)	Set-Reset Voltage (V DC) max	Coil Resistance $\Omega$ +/- 10%	Max allow Voltage (V DC)
5	3.75	125	10
6	4.5	180	12
9	6.75	405	18
12	9.0	720	24
15	11.25	1125	30
24	18.0	2040	48

**FRT3H-SL2 - Latching 2 Coils (Sensitive 150mW)**

Coil Voltage (V CD)	Set-Reset Voltage (V DC) max	Coil Resistance $\Omega$ +/- 10%	Max allow Voltage (V DC)
5	4.0	167	11.5
6	4.8	240	13.8
9	7.2	540	20.8
12	9.6	960	27.7
15	12.0	1500	34.6
24	19.2	3840	55.4

**FRT3-SL1 - Latching 1 Coil (Standard 100mW)**

Coil Voltage (V CD)	Set-Reset Voltage (V DC) max	Coil Resistance $\Omega$ +/- 10%	Max allow Voltage (V DC)
5	3.75	250	14
6	4.5	360	17
9	6.75	810	25
12	9.0	1440	34
15	11.25	2220	42
24	18.0	4000	56

**FRT3H-SL1 - Latching 1 Coil (Sensitive 75mW)**

Coil Voltage (V CD)	Set-Reset Voltage (V DC) max	Coil Resistance $\Omega$ +/- 10%	Max allow Voltage (V DC)
5	4.0	330	16
6	4.8	480	19
9	7.2	1080	29
12	9.6	1920	39
15	12.0	3000	43
24	19.2	7680	78

**Ordering information**

**FRT3 H - S L1 DC 12V**

Rated Voltage

NIL: single side stable  
L1: latching 1 coil  
L2: latching 2 coils

S: Sealed

NIL: 0.2W single side stable  
0.15W latching 1 coil (for L1)  
0.2W latching 2 coils (for L2)

H : 0.15W single side stable  
0.075W latching 1 coil (for L1)  
0.15W latching 2 coils (for L2)

Relay model

**DIMENSIONS (mm)**

