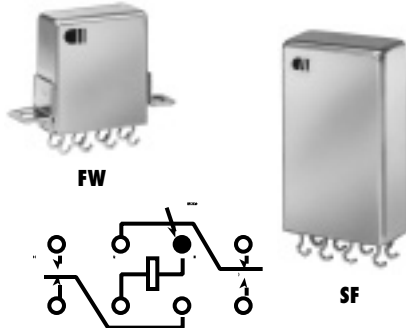


FW · FW5A · SF · SF5A

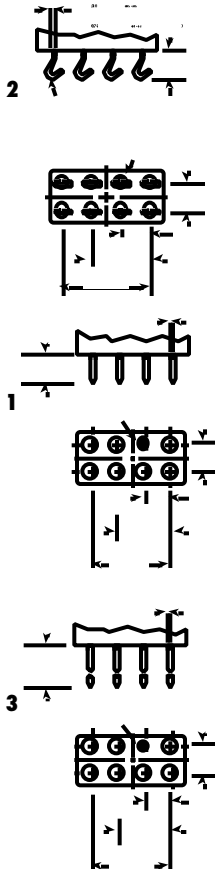
**TWO POLE FULL SIZE
CRYSTAL CAN RELAY**

FW QUALIFIED TO MIL-R-5757/10



FEATURES

- Hermetically sealed
- Up to 5 amps switching
- High shock & vibration ratings
- Optional terminals & mounting options
- Excellent RF switching



TERMINALS

ELECTRICAL CHARACTERISTICS

CONTACT ARRANGEMENT

2 Form C

CONTACT MATERIAL

Stationary:
Bifurcated hardened silver alloy

Moveable:
Gold plated hardened silver alloy

CONTACT RESISTANCE

Before Life: 50 milliohms max.
(measured @ 10 mA @ 6 Vdc)

After Life: 100 Milliohms max.
(measured @ 2 mA @ 28 Vdc)

MECHANICAL LIFE EXPECTANCY

50 million operations

COIL VOLTAGE

1.8 Vdc to 110 Vdc

COIL POWER

1.5 watts max. @ 25° C

DUTY CYCLE

Continuous

PICK-UP VOLTAGE

Approximately 50% of
nominal coil voltage

PICK-UP SENSITIVITY

250 mW (FW)

40 mW (SF)

80 mW (SF 5A)

RF PERFORMANCE (FW ONLY)

FREQUENCY (MHz)	RF LOSSES (dB)	VSWR	ISOLATION (dB)
100	0.1	1.17:1	40
250	0.2	1.18:1	33
500	0.3	1.19:1	28
750	0.4	1.19:1	25
1,000	0.4	1.19:1	23

CONTACT RATINGS

CONTACT LOAD	TYPE	OPERATIONS MIN.
5 A @ 28 Vdc (FW5A/SF5A)	Resistive	250,000
3 A @ 28 Vdc (FW)	Resistive	100,000
2 A @ 28 Vdc (SF)	Resistive	100,000
1 A @ 115 Vac, 60 Hz & 400 Hz (FW)	Resistive	100,000
0.3 A @ 115 Vac, 60 Hz & 400 Hz (SF)	Resistive	100,000
1 A @ 28 Vdc	Inductive (200 mH)	100,000
0.1 A @ 28 Vdc	Lamp	100,000
10 uA @ 50 mVdc	Low Level	1,000,000
75 WATTS @ 50 MHz (FW)	RF	10,000,000

OPERATING CHARACTERISTICS

TIMING

Operate Time:

15 ms max. (SF)

5 ms (FW)

6 ms max. (MIL-R-5757/10)

Release Time:

10 ms max. (SF)

5 ms max. (FW)

6 ms max. (MIL-R-5757/10)

Contact Bounce:

2 ms max.

DIELECTRIC WITHSTANDING VOLTAGE

Between Open Contacts:

500 Vrms, 60 Hz

Between Adjacent Contacts:

1,000 Vrms, 60 Hz

Between Contacts and Coil:

1,000 Vrms, 60 Hz

INSULATION RESISTANCE

10,000 Megohms @ 500 Vdc

ENVIRONMENTAL CHARACTERISTICS

TEMPERATURE RANGE

-65° to +125°C

WEIGHT

0.6 oz. max. (FW)

0.7 oz. max. (SF 6)

1.1 oz. max. (SF/SF 5A)

STANDARD VIBRATION RESISTANCE

20 G's, 10 to 2000 Hz (FW)

15 G's, 10 to 2000 Hz (SF)

QPL: 20 G's, 10 to 2000 Hz

SHOCK RESISTANCE

100 G's, 6 ±1 ms

QPL APPROVAL

MIL-R-5757/10 (FW only)

QPL EQUIVALENT

MIL-R-5757/13 (SF only)