402 Failsafe | N, BNC, TNC, SC





- DC-2 GHz
- DC-6 GHz
- DC-12.4 GHz
- Medium/High Power
- 1M Life Cycles

RF Characteristics

Frequency GHz	VSWR (max)	Isolation dB (min)	Ins. Loss dB (max)
DC-1	1.15	85	0.15
1-2	1.20	80	0.20
2-4	1.25	70	0.25
4-8	1.35	60	0.40
8-12.4	1.50	60	0.50

Note: Performance applies to N, BNC, and TNC type connectors. Consult with factory for SC-type connectors.

Specifications

Operating Voltage (across temperature range):

12 Vdc (11-14 Vdc)

24 Vdc (20-28 Vdc)

28 Vdc (24-32 Vdc)

Coil Current (max. @ nom. Vdc & 25°C)*:

12 Vdc 275 mA 24 Vdc 155 mA

28 Vdc 115 mA

Switching Time:

20 ms maximum

Operating Temperature:

-25°C to +65°C (Standard)

-55°C to +85°C (Extended "T" Option)

Mechanical Life Cycles*:

1,000,000 minimum

Vibration, Operating:

10G RMS, 20-2000 Hz

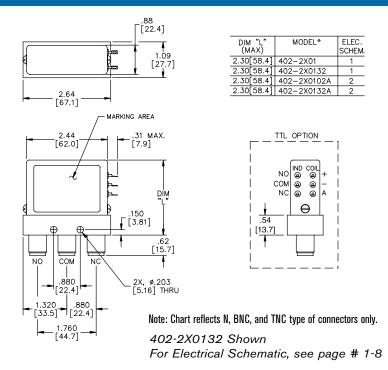
Mechanical Shock, Non-Operating:

50G, 1/2 Sine, 11 ms

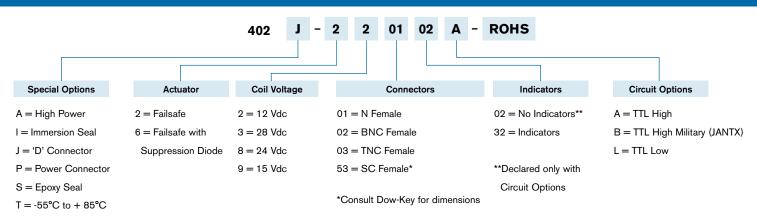
Nominal Weight*:

9.0 oz. (255 g.)

Mechanical



Part Number Selector



Note: TTL option includes suppression diode. Other options may be available and all combinations may not be possible. Please consult with factory.

^{*} Performance and weight varies depending on selected options. Values listed are for Standard 402 Failsafe model.

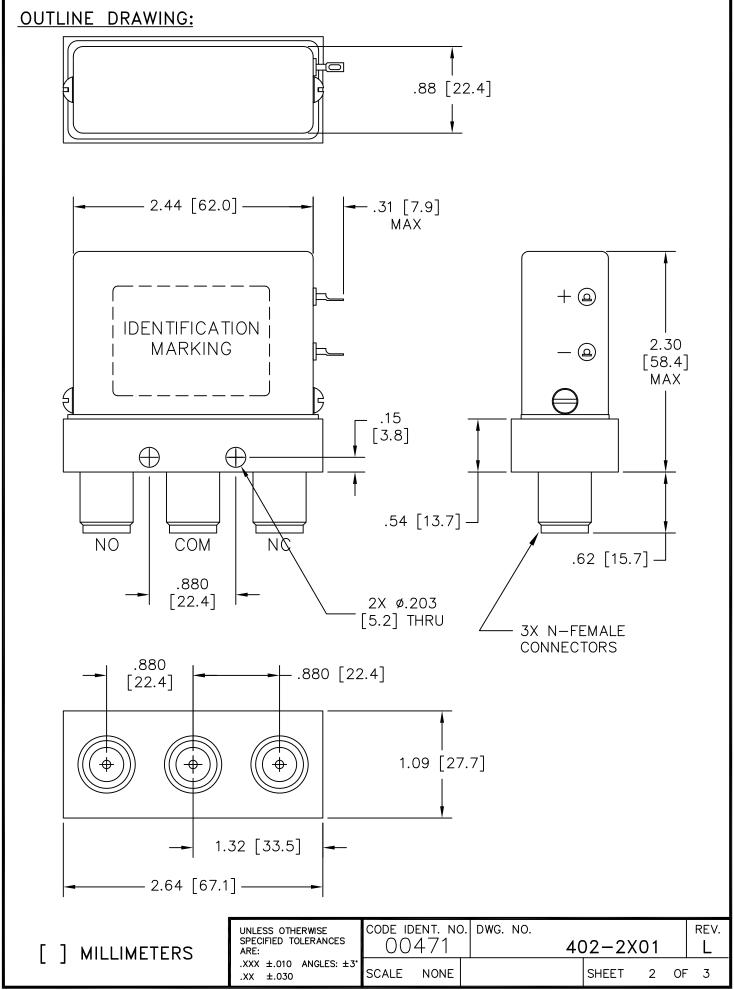


REVISIONS					
REV.	DESCRIPTION	DATE	APPROVED		
J	REVISED PER ECO #5299	8/31/98	J.A.		
K	REVISED AND REDRAWN PER ECO #9350	7/02/08	K.R.		
L	REVISED PER ECO #10803	4/18/14	K.R.		

Nominal Coil Voltage	Part Number
12 Vdc 15 Vdc 20 Vdc 24 Vdc 28 Vdc	402-2201 402-2901 402-2701 402-2801 402-2301
48 Vdc	402-2401

REVISIONS L L	L	Dow Key ® 4822 McGrath Street		
SHEET NO. 1 2	3	Dow Key ® 4822 McGrath Street Ventura, CA. 93003-5641 PH: (805) 650-0260		
APPROVALS	DATE	CORPORATION FAX: (805) 650-1734		
DRAWN S. LEE	6/30/08	a Idover) that-mologies company		
ENG G. NICKLAUS	7/01/08	SWITCH, SPDT, FAILSAFE		
ENG. MGR. R. SZNUK	7/01/08	N-FEMALE CONNECTORS,		
SALES MGR. A. CHEUNG	7/01/08	CODE IDENT. NO. DWG. NO.		
Q.A. MGR. N. SANDERS	7/01/08	00471 402-2X01		
MFG. MGR. R. GONZALEZ	7/01/08	SCALE NONE FINAL ASSY: SHEET 1 OF 3		







SPECIFICATIONS:

1. RF CHARACTERISTICS:

1.1	FREQUENCY (GHz):	0-1	1-2	2-4	4-8	8-12.4
1.2	VSWR (RATIO MAX):	1.15:1	1.20:1	1.25:1	1.45:1	1.50:1
1.3	INSERTION LOSS (dB MAX):	0.15	0.20	0.25	0.40	0.50
1.4	ISOLATION (dB MIN):	85	80	70	60	60
1.5	RF POWER (WATTS CW MAX):	600	400	300	200	175

2. ACTUATION DATA:

2.1	NOMINAL VOLTAGE	OPERATING VOLTAGE	CURRENT (TYP) © NOMINAL VOLTAGE & 25°C
	12Vdc	11-14	260mA
	15Vdc	13–17	230mA
	20Vdc	17-23	180mA
	24Vdc	20-28	145mA
	28Vdc	24-32	110mA
	48Vdc	42-56	70mA

2.2 SWITCHING TIME: 20mS MAX.2.3 OPERATING MODE: FAILSAFE

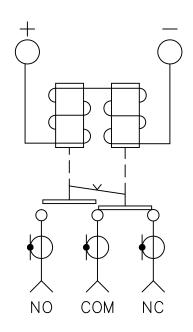
3. MECHANICAL:

3.1 RF CONTACTS: BREAK BEFORE MAKE
3.2 WEIGHT: 7.4oz. (210g.) NOMINAL
3.3 DESIGN LIFE: 1,000,000 CYCLES MIN

4. ENVIRONMENTAL:

4.1 OPERATING TEMPERATURE: -25°C TO +65°C
4.2 STORAGE TEMPERATURE: -55°C TO +85°C
4.3 SEAL: GASKET

SCHEMATIC:



code ident. no. 00471	DWG. NO. 402-2X01	RE	- -
SCALE NONE	SHEET 3 C	F 3	3