REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	9/14/11	K.R.

Nominal Coil Voltage	Part Number
12 Vdc	5C1JW-4208
28 Vdc	5C1JW-4308

Dow-Key has certified the product line to meet the passive intermodulation limits specified herein. PIM measurements may vary when different carrier frequencies, power levels, and/or PIM frequencies are used in the final application. PIM testing is not conducted as a part of the standard product acceptance test.

REVISIONS	A	A	A			
SHEET NO.	1	2	3			

APPROVALS	DATE
DRAWN SARA LEE	8/31/11
ENGINEERING G.NICKLAUS	8/31/11
QUALITY G.WAKEFIELD	9/3/11
MANUFACTURING J. LEE	9/7/11

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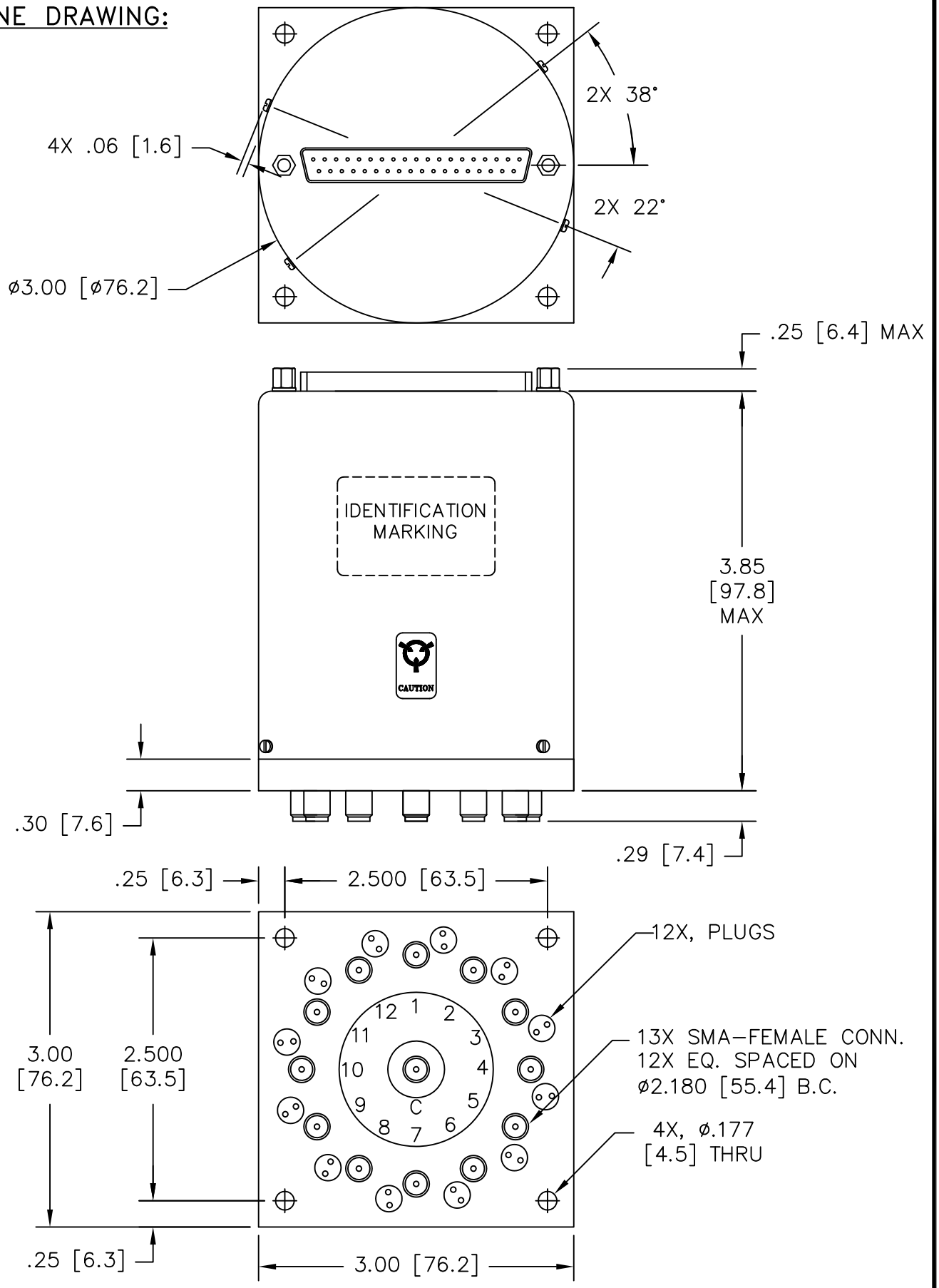
A DOVER TECHNOLOGIES COMPANY

SWITCH, 12 POSITION, LATCHING SELF CUT-OFF SMA-FEMALE CONNECTORS, DB37P DC CONNECTOR, LOW PASSIVE INTERMODULATION (PIM)

CODE IDENT. NO.	DWG. NO.	
00471	5C1JW-4X08	
SCALE NONE	FINAL ASSY:	SHEET 1 OF 4

OUTLINE DRAWING:



[ ] MILLIMETERS

UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: .XXX ±.010 ANGLES: ±3° .XX ±.030	CODE IDENT. NO. 00471	DWG. NO. 5C1JW-4X08	REV. A
	SCALE NONE		SHEET 2 OF 4

SPECIFICATIONS:

1. RF CHARACTERISTICS:

1.1	FREQUENCY (GHz):	DC–4	4–8	8–12.4	12.4–18
1.2	VSWR (RATIO MAX):	1.20:1	1.40:1	1.50:1	1.80:1
1.3	INSERTION LOSS (dB MAX):	0.20	0.40	0.60	0.80
1.4	ISOLATION (dB MIN):	70	65	60	60
1.5	RF POWER (WATTS CW MAX):	100	70	60	50

1.6 PASSIVE INTERMODULATION:

TEST SIGNALS:

CARRIER FREQUENCY 1: 1930 MHz, APPROXIMATELY 43dBm (20W)

CARRIER FREQUENCY 2: 1990 MHz, APPROXIMATELY 43dBm (20W)

SPECIFICATION REQUIREMENT:

3rd ORDER PIM PERFORMANCE: BELOW –160 dBc

3rd ORDER PIM FREQUENCY: 1870 MHz

2. ACTUATION DATA:

2.1

NOMINAL VOLTAGE	OPERATING VOLTAGE	CURRENT (TYP) @ NOMINAL VOLTAGE & 25°C
12	11–14	650mA
28	24–32	500mA

2.2	SWITCHING TIME:	30ms MAX
2.3	OPERATING MODE:	LATCHING, SELF CUT–OFF
2.4	SINK CURRENT:	500uA @ 0–0.8 VDC
2.5	BIAS CURRENT:	15mA MAX

3. MECHANICAL:

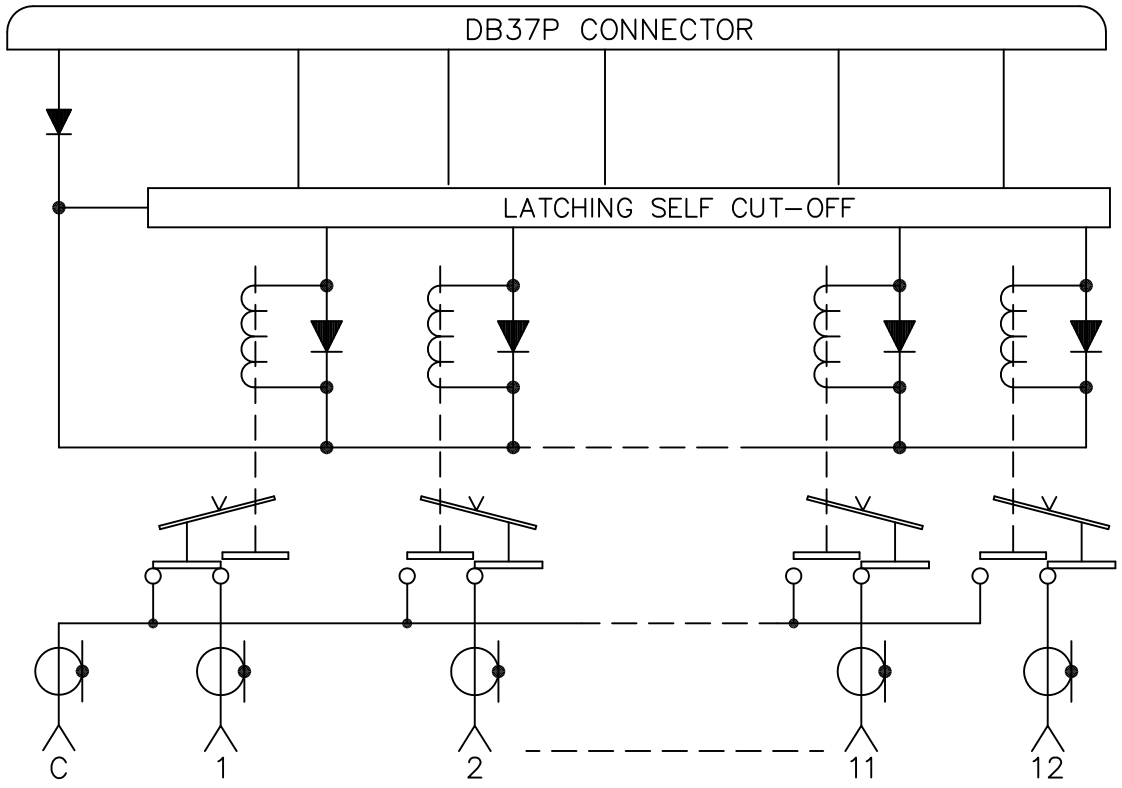
3.1	RF CONTACTS:	BREAK BEFORE MAKE
3.2	WEIGHT:	18.0oz. (510g.) NOMINAL
3.3	DESIGN LIFE:	1,000,000 CYCLES MIN

4. ENVIRONMENTAL:

4.1	OPERATING TEMPERATURE:	–25°C TO +65°C
4.2	STORAGE TEMPERATURE:	–55°C TO +85°C
4.3	SEAL:	SAND AND DUST

SCHEMATIC:

TO ENERGIZE POSITION, A GROUND MUST BE APPLIED TO THE DESIGNATED INPUT PIN.
FOR POSITIONS NOT SELECTED NO VOLTAGE IS NEEDED, INPUTS ARE PULLED UP INTERNALLY TO 5VDC.
APPLYING A VOLTAGE > 5 VOLTS TO ANY INPUT WILL DAMAGE THE SWITCH



SCHEMATIC SHOWN WITH POSITION 1 SELECTED

PIN NO.	FUNCTION	PIN NO.	FUNCTION
1	+VDC	20	RTN
2	–POS. 1	21	IND 12
3	–POS. 2	22	–POS. 8
4	–POS. 3	23	–POS. 9
5	–POS. 4	24	–POS. 10
6	–POS. 5	25	–POS. 11
7	–POS. 6	26	–POS. 12
8	–POS. 7	27	NOT USED
9	NOT USED	28	NOT USED
10	NOT USED	29	NOT USED
11	NOT USED	30	NOT USED
12	NOT USED	31	NOT USED
13	NOT USED	32	NOT USED
14–19	NOT USED	33–37	NOT USED

CODE IDENT. NO.	DWG. NO.	REV.
00471	5C1JW–4X08	A
SCALE NONE		SHEET 4 OF 4