

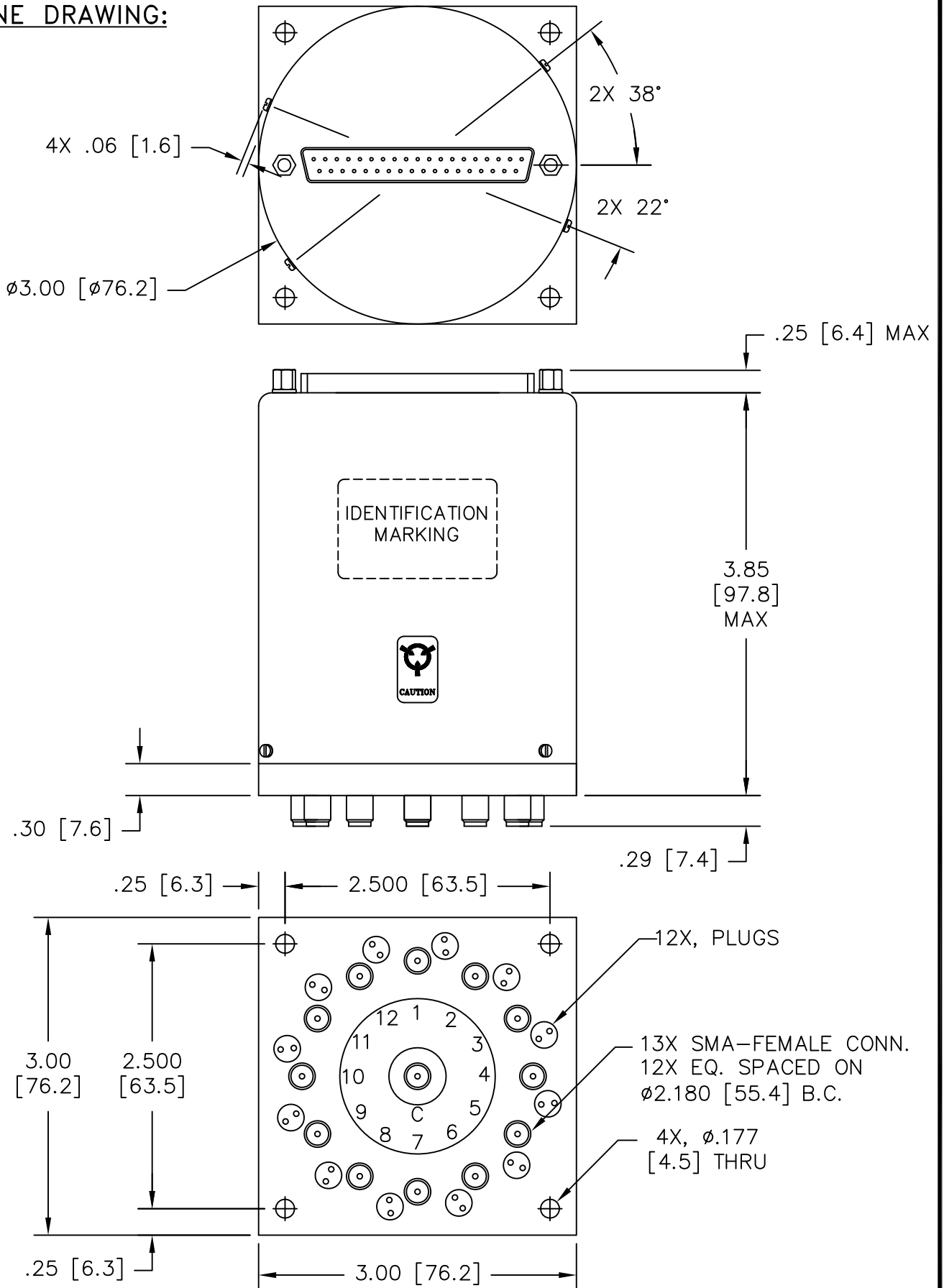
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	3/18/10	K.R.
B	REVISED PER ECO #9850	5/13/10	K.R.
C	REVISED PER ECO #10175	9/16/11	K.R.

Nominal Coil Voltage	Part Number
12 Vdc	5C1JW-420852
28 Vdc	5C1JW-430852

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	C	C	C	C			 DowKey[®] Microwave CORPORATION	4822 McGrath Street Ventura, CA. 93003-5641 PH: (805) 650-0260 FAX: (805) 650-1734
SHEET NO.	1	2	3	4				
APPROVALS		DATE					 A DOVER TECHNOLOGIES COMPANY	
DRAWN S. LEE		3/10/10						
ENG G. BONDI		3/16/10						
ENG. MGR. G. NICKLAUS		3/17/10						
SALES MGR. J. TRUJILLO		3/17/10						
Q.A. MGR. A. ANDERSON		3/18/10						
MFG. MGR. J. LEE		3/18/10					SWITCH, 12 POSITION, LATCHING SELF CUT-OFF SMA-FEMALE CONNECTORS, OPTICAL INDICATORS DB37P DC CONN., LOW PASSIVE INTERMODULATION (PIM)	
		CODE IDENT. NO. 00471			DWG. NO. 5C1JW-4X0852			
		SCALE NONE			FINAL ASSY:			SHEET 1 OF 4

OUTLINE DRAWING:



[] MILLIMETERS

UNLESS OTHERWISE
SPECIFIED TOLERANCES
ARE:
.XXX $\pm .010$ ANGLES: $\pm 3^\circ$
.XX $\pm .030$

CODE IDENT. NO.
00471

DWG. NO.

5C1JW-4X0852

REV.
C

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:

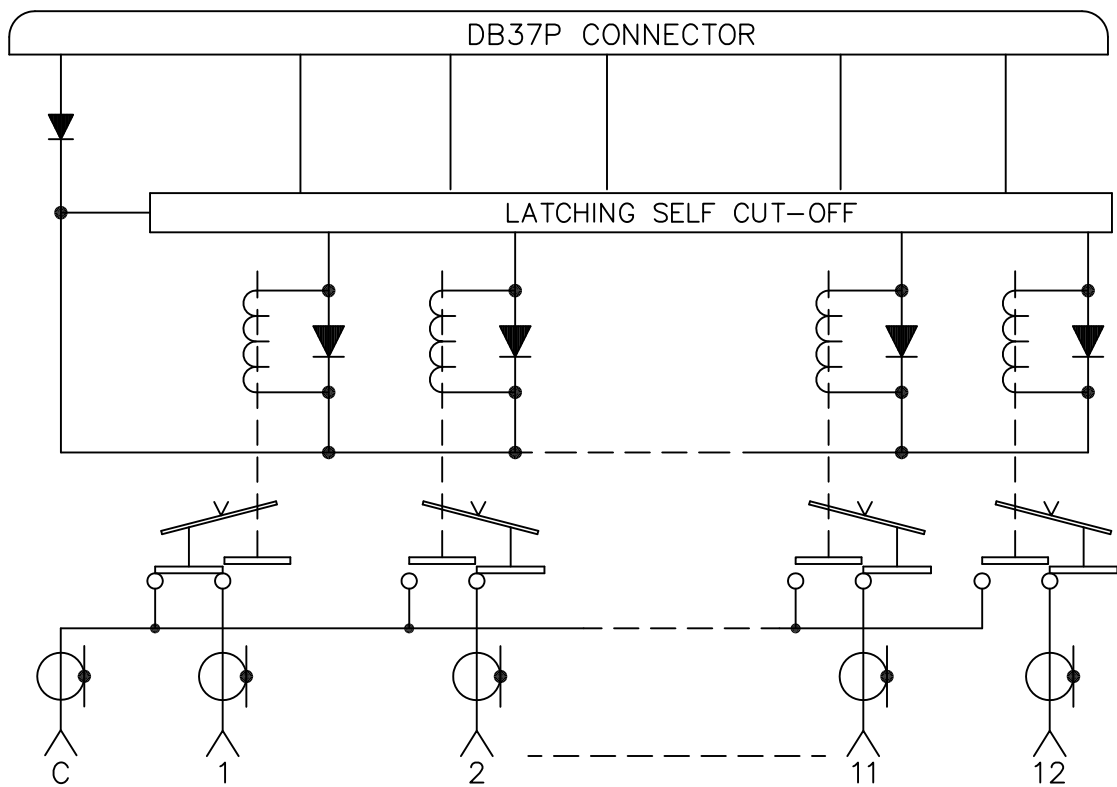
4.1 OPERATING TEMPERATURE:	-25°C TO +65°C
4.2 STORAGE TEMPERATURE:	-55°C TO +85°C
4.3 SEAL:	SAND AND DUST

CODE IDENT. NO. 00471	DWG. NO. 5C1JW-4X0852	REV. C
SCALE NONE		SHEET 3 OF 4

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

* THE INDICATORS ARE TTL LOGIC LEVEL SIGNALS.
THE SELECTED POSITION INDICATOR WILL BE A LOGIC HI.



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	IND 6
9	IND 1 *	28	IND 7
10	IND 2	29	IND 8
11	IND 3	30	IND 9
12	IND 4	31	IND 10
13	IND 5	32	IND 11
14-19	NC	33-37	NC

CODE IDENT. NO.	DWG. NO.	REV.
00471	5C1JW-4X0852	C
SCALE NONE	SHEET 4 OF 4	