

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

Nominal Coil Voltage	Part Number
12 Vdc	581JW-4208
28 Vdc	581JW-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		08/26/11				
ENGINEERING G. NICKLAUS		8/29/11				
QUALITY G. WAKEFIELD		8/30/11				
MANUFACTURING J. LEE		8/31/11				



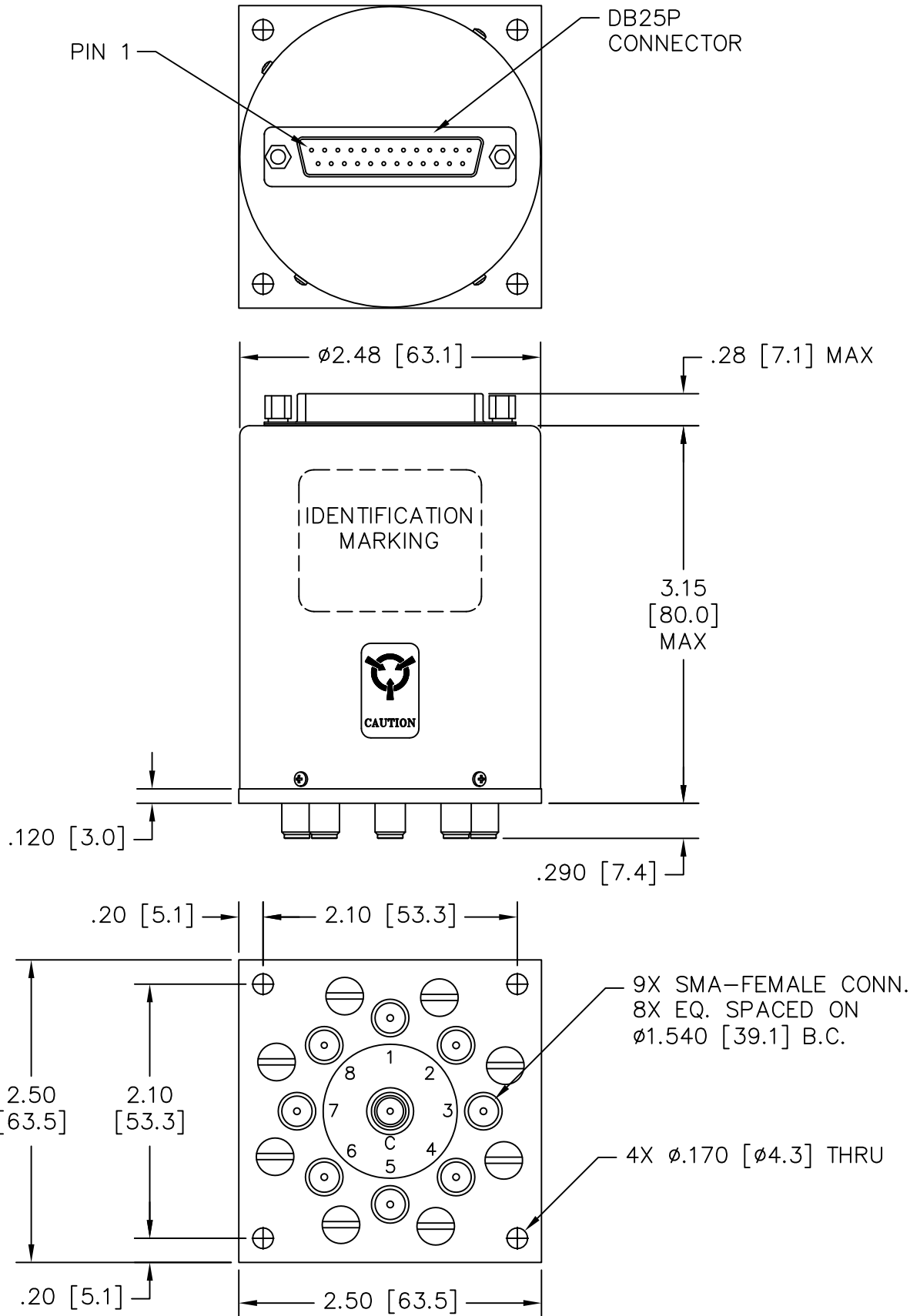
DowKey®
Microwave
CORPORATION

4822 McGrath Street
Ventura, CA. 93003-5641
PH: (805) 650-0260
FAX: (805) 650-1734

A **DOVER** TECHNOLOGIES COMPANY

SWITCH, SP10T, LATCHING SELF CUT-OFF SMA-FEMALE CONNECTORS, DB25P DC CONN., LOW PASSIVE INTERMODULATION (PIM)		
CODE IDENT. NO. 00471	DWG. NO. 5Y1JW-4X08	
SCALE NONE	FINAL ASSY:	SHEET 1 OF 3

OUTLINE DRAWING:



[] MILLIMETERS

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

CODE IDENT. NO.
 00471

DWG. NO.
 5Y1JW-4X08

REV.
 A

SCALE NONE

SHEET 2 OF 3

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	1.30:1	1.40:1	1.50:1
1.3 INSERTION LOSS (dB MAX):	0.20	0.30	0.40	0.50
1.4 ISOLATION (dB MIN):	85	75	70	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	415mA
	28	24-32	180mA

2.2 SWITCHING TIME: 15ms MAX

2.3 OPERATING MODE: LATCHING SELF CUT-OFF

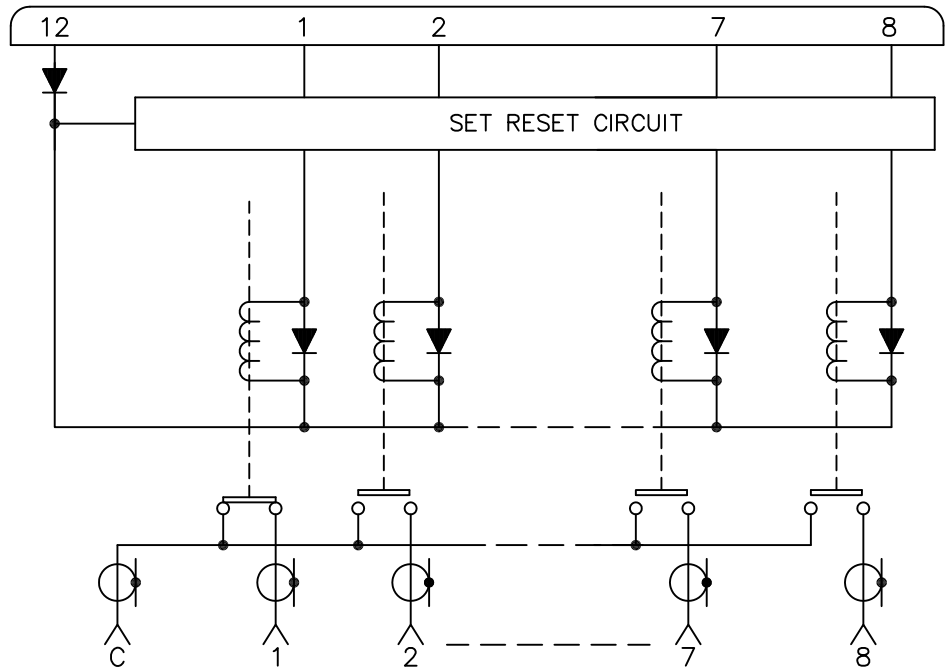
3. MECHANICAL:

3.1 RF CONTACTS:	BREAK BEFORE MAKE
3.2 WEIGHT:	8.5oz. (240g.) 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:



PIN NO.	FUNCTION
1	- POS. 1
2	- POS. 2
3	- POS. 3
4	- POS. 4
5	- POS. 5
6	- POS. 6
7	- POS. 7
8	- POS. 8
9,10,11	SPARE
12	+VDC
13-25	SPARE

SCHEMATIC SHOWN WITH
POSITION 1 ENERGIZED

CODE IDENT. NO. 00471	DWG. NO. 5Y1JW-4X08	REV. A
SCALE NONE	SHEET 3 OF 3	