High-Speed Switch
SP2T High Speed Reflective

The Mercury Systems SRMG9EL2-001 PIN diode SP2T switch is a high speed reflective switch offering high performance and an integrated high speed driver controlled by TTL or CMOS signals. The Mercury Systems family of high performance switches is available in military or non military versions, hermetic and non-hermetic.

Applications

EW systems
Communications systems
Antenna/Filter Selectors

Features

Broadband units
Environmentally sealed
-55º C to +95º C operation
Shock/vibration/acceleration capable

SP2T Specifications, +25º C

Parameter	Min	Typ	Max	Unit
Frequency	18		40	GHz
Insertion Loss		2.5	3.0	dB
VSWR		2.0	2.5	:1
Isolation	30	35		dB
Switching Speed		100	500	nS
50% TTL to 10/90% RF			1	W
Max RF Power, CW or Average				

Control Logic

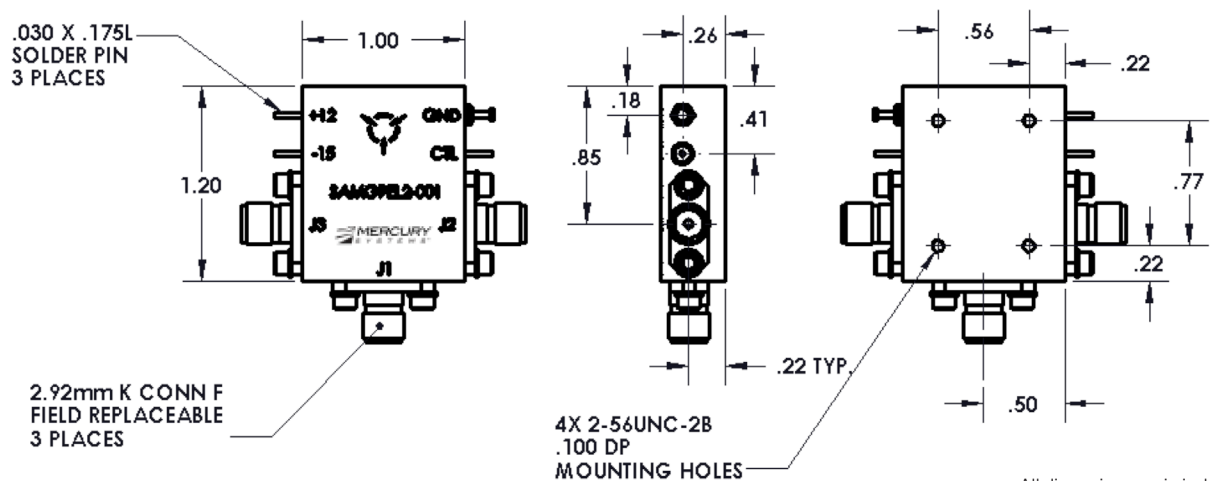| Control Logic	Switch State	
	On	Off
TTL 1	J1 - J2	J1 - J3
TTL 0	J1 - J3	J1 - J2

Specifications

Storage Temperature — -65° to +150°C
Finish — Gray Epoxy Paint per MIL-C-22750
Weight — 1.5 oz. Max

Power Supply

Code ± 5%	Current (mA MAX)
+12V	50
-15V	50

Outline Drawing

.030 X .175L
SOLDER PIN
3 PLACES

1.00

+12   GND

-15   CTL

3AM3PEL2-001

J3   J2

J1

1.20

2.92mm K CONN F
FIELD REPLACEABLE
3 PLACES

.26

.18

.85   .41

.22 TYP

4X 2-56UNC-2B
.100 DP
MOUNTING HOLES

.56

.22

.77

.22

.50

All dimensions are in inches

mercury systems™

Corporate Headquarters
50 Minuteman Road • Andover, MA 01810 USA • (978) 967-1401 • (866) 627-6951 • Fax (978) 256-3599 • www.mrcy.com