

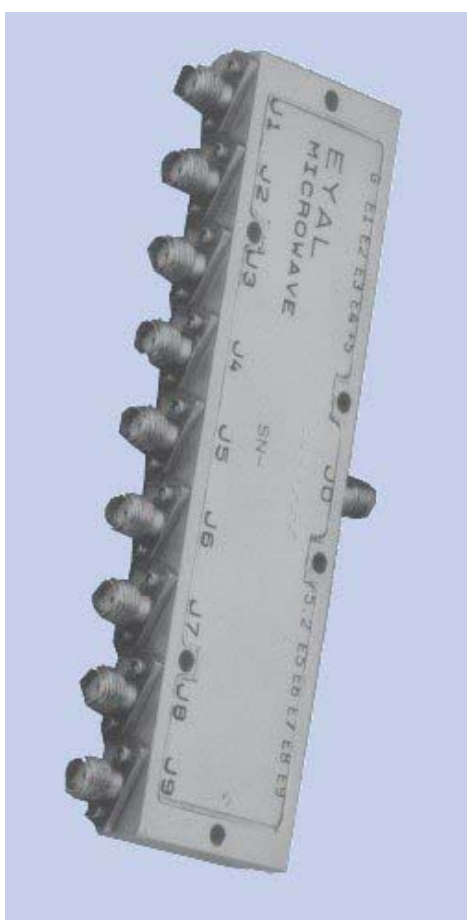


Model IA-2470-XO Low Profile Absorptive SP9T Switch

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[Application Notes for RF Switches](#)

- Frequency range: 8 to 12 GHz
- All in-line output ports
- Non-reflective
- Hermetically Sealed
- Low Profile



MODEL IA-2470 SERIES

Model IA-2470-XO SP9T switch, is part of our product line of Low Profile, slim hermetically sealed switches.

The Model IA-2470 series is equipped with an integrated driver that is powered by +5 and -12 volt supplies. The proper currents required to switch the ports ON or OFF are provided by the driver, which is controlled by external logic signals.

PERFORMANCE SPECIFICATIONS

CHARACTERISTIC	FREQUENCY RANGE (GHz)
Min. Isolation (dB)	70
Max. Insertion Loss (dB)	4.0
Max. VSWR one port ON	2.0:1
Max. VSWR OFF	2.0:1

Switching Time

ON time..... 25 nsec max.
 OFF time..... 25 nsec max.
 Switching Rate.....1 MHz max

Power Handling Capability

Without Performance
 Degradation..... 100 mW cw or peak
 Survival Power.....@25°C 1W cw

Power Supply Requirements

+5V ±2%, 250 mA max
 - 12V ±2%, 110 mA max

Control Characteristics

TTL Control,
 "0" = Insertion Loss,
 "1" = Isolation

ENVIRONMENTAL RATINGS

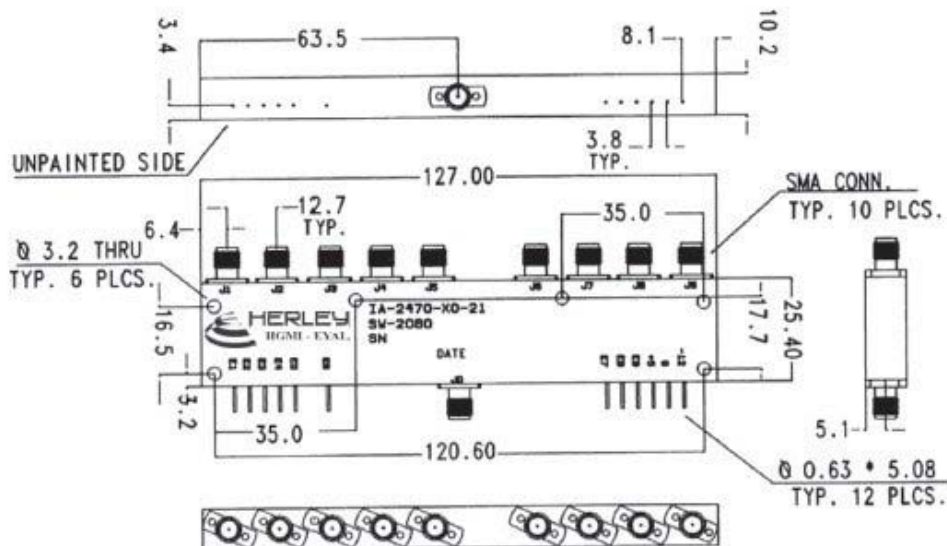
Operating Temperature Range	- 54°C to +85°C
Non Operating Temperature Range	- 55°C to +125°C
Humidity	MIL-STD-202F, Method 103B, Cond. (96 hrs. at 95%)
Shock	MIL-STD-202F, Method 213B, Cond. C (100G/ 6/msec)
Vibration	MIL-STD-202F, Method 204D, Cond. G (30g PEAK)
Altitude	MIL-STD-202F, Method 105C, Cond. C (70,000 ft.)
Temp. Shock	MIL-STD-202F, Method 107D, Cond. A, (5 cycles) -55°C to +125°C
Seal	MIL-STD 202F, Method 112C, Cond. C 5x10-7
Salt Spray	MIL-STD 202F, Method 101D+EST., Cond. B

OPTIONS

The switch can be supplied with various options

please consult us for more details.

1. Other Frequency Bands
2. Reflective
3. Different Outline
4. Video Leakage Requirements



Dimensional are in MM, Tolerances, unless otherwise indicated: .XXX ±.005



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