

Control Components

REFLECTIVE SPDT SWITCH MODULES

- Multi Octave Frequency Ranges
- Hermetically Sealed
- Microstrip/Stripline Compatible

DESCRIPTION

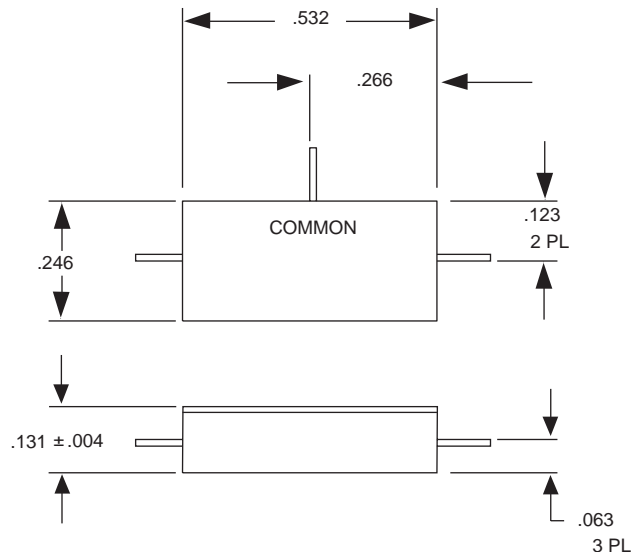
Narda Semiconductor Operation switch modules provide an economical way of achieving a switch function from UHF through Ku band. These switch modules provide broadband, high performance characteristics in a small package. Our catalog parts are basic examples of our capability. We will be glad to explore your specific requirements with the goal of providing custom parts for your needs.

ENVIRONMENTAL

These units are designed to meet the following environmental criteria.

TEST	MIL-STD	METHOD	CONDITION
Internal Visual	883	2017	
Stabilization Bake	883	1008	B
Thermal Cycle	883	1010	B
Constant Acceleration	883	2001	A (Y1 Axis)
Burn-in	883	1015	125°C
Seal			
Fine	883	1014	A1
Gross	883	1014	C1
External Visual	883	2009	

MECHANICAL OUTLINE 210004



Notes:

1. All pins are $.012 \pm .001$ " dia., $.100$ " (min) long. May be supplied with tabs, $.025 \pm .01 \times .006 \pm .002$, upon request.
2. Tolerances on 3 place decimal, $\pm .003$ " unless otherwise specified.
3. Case and leads gold plated per MIL-G-45204, Type 3, Grade A 50μ inch (min).

SEMICONDUCTOR OPERATION

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REFLECTIVE SPDT SWITCH MODULES

GUARANTEED SPECIFICATIONS at 25°C

PART NUMBER	FREQUENCY RANGE	INSERTION LOSS (dB MAX)	VSWR (MAX)	ISOLATION (dB MIN)
GG-72030-01	0.5 - 4.0	0.8	1.5:1	60
GG-72030-02	2.0 - 8.0	1.3	1.7:1	60
GG-72030-03	4.0 - 12.4	1.8	1.8:1	55
GG-72030-04	8.0 -18.0	2.2	1.9:1	50
GG-72030-05	2.0 - 18.0	2.3	2.0:1	45

Notes:

1. RF Power Handling; 0.5W CW.
2. Switching Speed: Rise time, 30nS (max); Fall time, 10nS (max).
3. Required D.C. Bias: Insertion Loss, -35mA; Isolation, +30 mA.
4. Switching Speed is measured from 10%-90% and from 90%-10% of the detected RF pulse with a 2 MHz maximum switching rate.
5. Temperature Rating: Operating, -55 to +95°C; Storage, -55° to +125°C.