

GG72230

REFLECTIVE SPDT SWITCH MODULES with TTL Driver

RoHS Compliant



DESCRIPTION

Microsemi – Lowell's 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.

This series of modules meets RoHS requirements per EU Directive 2002/95/EC. The standard terminal finish is gold unless otherwise specified. Consult the factory if you have special requirements.

KEY FEATURES

- Multi Octave Frequency Ranges
- Hermetically Sealed
- Microstrip/Stripline Compatible
- Internal TTL Driver
- RoHS Compliant

IMPORTANT: For the most current data, consult MICROSEMI's website: www.MICROSEMI.com

These devices are ESD sensitive and must be handled use using ESD precautions.

ABSOLUTE MAXIMUM RATINGS AT 25° C (UNLESS OTHERWISE SPECIFIED)

Rating	Symbol	Value	Unit	
Storage Temperature	T _{STG}	-55 to +125	°C	
Operating Temperature	T _{OP}	-55 to +95	٥C	
RF CW Power Handling	P _{CW}	0.5	W	

APPLICATIONS/BENEFITS

- Drop in Module
- Broadband (0.5 18 GHz)

www.MICROSEMI.com



GG72230

e4

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GUARANTEED ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified) T_s (nS) SWITCHING Ins. Loss³ (dB) Frequency Isolation(dB) VSWR Model Number SPEED⁴ Range (Max) (Min) (Max) GG72230-01 0.5 - 4.0 1.0 60 1.5:1 50 GG72230-02 2.0 - 8.0 60 1.7:1 50 1.6 GG72230-03 4.0 - 12.4 2.2 60 1.9:1 50 GG72230-04 8.0 - 18.0 2.5 50 2.0:1 50 GG72230-05 2.5 45 2.0:1 50 2.0 - 18.0

Notes:

1. RF Power Handling; 0.5W CW.

2. Switching Speed: 50nsec (max).

3. Required D.C. Bias: +5v @ +75mA (max) & -8 to -15v @ -50mA (max) 4. Switching Speed is measured from the 50% point of the TTL pulse to the 90%-10% of the detected RF pulse with a 2 MHz maximum

switching rate.

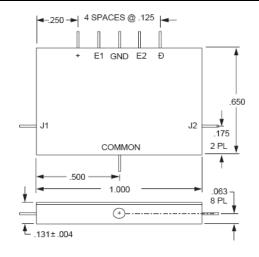
5. Temperature Rating: Operating, -55 to +95°C; Storage, -55 to +125°C.

ENVIRONMENTAL

These units are designed to withstand the following environmental conditions without damage.

ENVRONMENTAL CONDITIONS					
TEST	MIL-PRF	METHOD	CONDITION		
Internal Visual	883	2017			
Stabilization Bake	883	1008	В		
Thermal Cycle	883	1010	В		
Constant Acceleration	883	2001	1 (Y1 Axis)		
Seal – Fine Leak	883	1014	A1		
Seal – Gross Leak	883	1014	C1		
External Visual	883	2009			

OUTLINE 210015



NOTES

- 1. All pins are 0.012 ±0.001" dia, 0.100" (min) long. May be supplied with tabs, 0.025 ±0.01 x 0.006 ±0.002, upon request.
- 2. Tolerance on 3 place decimal, ±0.003" unless otherwise specified.
- 3. Case and leads gold plated per MIL-G-45204, Type 3, Grade A 50 µinch (min).

Truth Table				
E1	E2	Comm - J1	Comm - J2	
0	1	Loss	Isolation	
1	0	Isolation	Loss	