GG72430

REFLECTIVE SPDT SWITCH with TTL Driver

RoHS Compliant e4 RoHS

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.

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.

KEY FEATURES

- Multi Octave Frequency Ranges
- Coaxial Connection
- Internal TTL Driver
- RoHS Compliant

APPLICATIONS/BENEFITS

- Coaxial Assembly
- Broadband (0.5 – 18 GHz)

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	°C
RF CW Power Handling	P_{CW}	0.5	W

www.MICROSEMI.com

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Microsemi
Microwave Products
75 Technology Drive, Lowell, MA. 01851, 978-442-5600, Fax: 978-937-3748

GUARANTEED ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified)

Model Number	Frequency Range	Ins. Loss (dB) (Max	Isol. (dB) (Min)	VSWR (Max)	SWITCHING SPEED (nS) (Max)
GG72430-01	0.5 - 4.0	1.0	60	1.5:1	50
GG72430-02	2.0 - 8.0	1.6	60	1.7:1	50
GG72430-03	4.0 - 12.4	2.2	60	1.8:1	50
GG72430-04	8.0 - 18.0	2.5	55	1.9:1	50
GG72430-05	2.0 - 18.0	2.5	55	2.0:1	50

Notes:
1. RF Power Handling; 0.5W CW
2. Switching Speed: 50nsec. (max).
3. Switching Speed is measured from the 50% point of the TTL pulse to the 90/10% point of the RF pulse at a 2 MHz maximum switching rate.
4. Required D.C. Bias: +5v @ 75mA (max) and -8 to -15v @ 50 mA (max).
5. Temperature Rating: Operating, -55 to +95°C; Storage, -55 to +125°C.

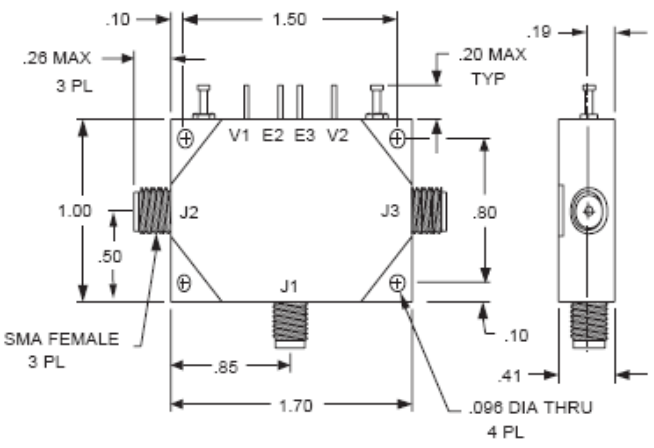
ENVIRONMENTAL

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	B
Thermal Cycle	883	1010	B
Constant Acceleration	883	2001	1 (Y1 Axis)
Burn In	883	1015	125 °C
Humidity	202	103B	B
External Visual	883	2009	- -

OUTLINE 210047



NOTES

Notes:
1. All pins are .025 ±.001" dia., .100" (min) long.
2. Tolerances:
   .xxx .010"
   .xx .020"
3. Leads gold plated per MIL-G-45204, Type 3, Grade A 50 µinch (min).
4. Case finish: Epoxy Paint, Grey #36231.
5. Other packaging available on special order.

TRUTH TABLE			
E2	E3	J1 - J2	J1 - J3
0	1	Loss	Isolation
1	0	Isolation	Loss

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