

GG75420

ABSORBTIVE SP5T SWITCH with TTL Driver

RoHS Compliant



www.MICROSEMI.com

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
- Coaxial Connection
- Consistent VSWR
- Internal TTL Driver
- RoHS Compliant

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

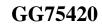
These devices are ESD sensitive and must be handled use using ESD precautions.

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

- Coaxial Assembly
- Broadband (0.5 18 GHz)



e4



RoHS Compliant (

GUARANTEED ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified)								
Model Number	Frequency Range	Ins. Loss (dB) (Max	lsol. (dB) (Min)	VSWR (Max)	SWITCHING SPEED (uS) (Max)			
GG75420-01	0.5 - 4.0	1.6	45	1.5:1	1.0			
GG75420-02	2.0 - 8.0	2.1	40	1.7:1	1.0			
GG75420-03	4.0 - 12.4	2.6	40	1.8:1	1.0			
GG75420-04	8.0 - 18.0	3.2	35	1.9:1	1.0			
GG75420-05	2.0 - 18.0	3.2	35	2.0:1	1.0			

Notes:

1. RF Power Handling; 0.5W CW

2. Switching Speed: 1.0µsec (max).

3. Internal Load Rating 100mW (max).

Microsemi

 Switching Speed is measured from the 50% point of the TTL pulse to the 90/10% point of the RF pulse at a 100 kHz maximum switching rate.

5. Required D.C. Bias: +5v @ 200mA (max) and -8 to -15v @ 50 mA (max).

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

7. Only the switched arms, J2 thru J6, are matched in the isolated state.

The common arm, J1, is matched only when one path is in the loss state.

ENVIRONMENTAL

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

ENVRONMENTAL CONDITIONS METHOD CONDITION MIL-PRF TEST Internal Visual 883 2017 - -Stabilization Bake 883 1008 В Thermal Cycle 883 1010 В Constant 1 883 2001 Acceleration (Y1 Axis) 1015 125 °C Burn In 883 Humidity 202 103B В **External Visual** 883 2009 - -



GG75420

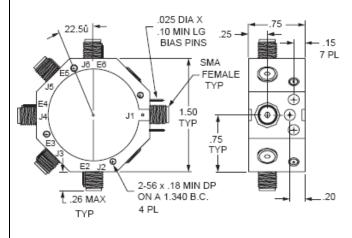
e4

ABSORBTIVE SP5T SWITCH with TTL Driver

RoHS Compliant



OUTLINE 210050



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	E4	E5	E6	J1 - J2	J1 - J3	J1 - J4	J1 - J5	J1 - J6
0	1	1	1	1	Loss	Isolation	Isolation	Isolation	Isolation
1	0	1	0	1	Isolation	Loss	Isolation	Isolation	Isolation
1	1	0	1	1	Isolation	Isolation	Loss	Isolation	Isolation
1	1	1	0	1	Isolation	Isolation	Isolation	Loss	Isolation
1	1	1	1	0	Isolation	Isolation	Isolation	Isolation	Loss

MECHANICAL