

GG75020

ABSORPTIVE SP5T SWITCH MODULES

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.

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)

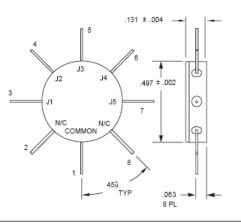
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Rating	Symbol	Value	Unit			
Storage Temperature	T _{STG}	-55 to +125	°C			
Operating Temperature	T _{OP}	-55 to +95	°C			
RF CW Power Handling	P _{CW}	0.5	W			

KEY FEATURES

- Multi Octave Frequency Ranges
- Hermetically Sealed
- Microstrip/Stripline Compatible
- Consistent VSWR
- RoHS Compliant

APPLICATIONS/BENEFITS

- Drop in Module
- Broadband (0.5 18 GHz)





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RoHS Compliant (e4

	GUARANTEED ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified)						
			2	,		SWITCHING SPEED ² (nS)	
	Model Number	Frequency Range	Insertion Loss ³ (dB) (Max)	Isolation(dB) ³ (Min)	VSWR (Max)	T _{RISE} (Max)	T _{FALL} (Max)
	GG75020-01	0.5 - 4.0	1.5	45	1.5:1	1.0	1.0
	GG75020-02	2.0 - 8.0	2.0	40	1.7:1	1.0	1.0
	GG75020-03	4.0 - 12.4	2.4	40	1.8:1	1.0	1.0
ſ	GG75020-04	8.0 - 18.0	3.0	35	1.9:1	1.0	1.0
	GG75020-05	2.0 - 18.0	3.0	35	2.0:1	1.0	1.0

Notes:

1. RF Power Handling: .5W CW.

2. Switching Speed: 1.0µS (max).

3. Required D.C. Bias: Insertion Loss, -35 mA; Isolation, +20 mA.

4. Switching Speed is measured from 10%-90% and from 90%-10% of the detected RF pulse with a 100 kHz maximum switching rate.

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

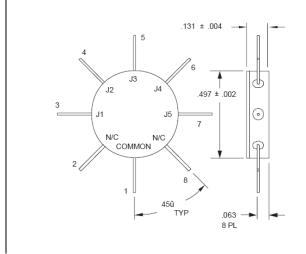
6. Only the switched arms, J1 thru J5, are matched in the isolation state. The common arm is matched only when one path is in the loss state.

ENVIRONMENTAL

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

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

OUTLINE 210009



NOTES

- 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).