

REFLECTIVE SPST 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

 $\textbf{IMPORTANT:} For the most current data, consult \textit{MICROSEMI} s website: \underline{\textit{www.MICROSEMI.com}}$



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	Ô				
RF CW Power Handling	Pcw	10	W				

APPLICATIONS/BENEFITS

- Drop in Module
- Broadband (0.5 18 GHz)

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GUARANTEED ELECTRICAL PARAMETERS @ 25°C (unless otherwise specified)								
					SWITCHING SPEED ¹ (nS)			
Model Number	Frequency Range	Insertion Loss (dB) (Max)	Isolation(dB) (Min)	VSWR (Max)	T _{RISE} (Max)	T _{FALL} (Max)		
GG71210-01	0.5 - 4.0	0.9	40	1.5:1	50	50		
GG71210-02	2.0 - 8.0	1.3	50	1.7:1	50	50		
GG71210-03	4.0 - 12.4	1.5	60	1.9:1	50	50		
GG71210-04	8.0 - 18.0	1.8	50	2.0:1	50	50		
GG71210-05	2.0 - 18.0	1.8	45	2.0:1	50	50		

Notes:

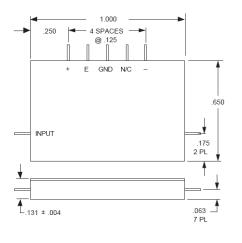
- Switching Speed is measured from the 50% point of the TTL pulse to the 90/10% of the detected RF pulse with a 2 MHz maximum switching rate.
- 2 TTI Driver
 - a. Required D.C. Bias: +5v @ +75mA (max) & -8 to -15v @ -50mA (max)
 - b. Logic: TTL "0" = loss; TTL "1" = isolation

ENVIRONMENTAL

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

ENVRONMENTAL CONDITIONS								
TEST	MIL-PRF	METHOD	COND.					
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 210014



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 $\mu inch \ (min).$