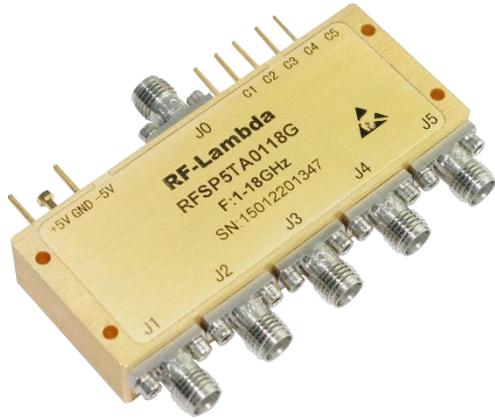




**Hermetically Sealed
Reflective Coaxial SP5T Switch
0.2-43.5GHz**



Features

- Wide Band Operation 0.2-40GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request

Photo is only to show the package type. Part number may not be correct.

Electrical Specifications, TA = +25° C, Vdd = +5V, Vss = -5V, Control TTL = 0 / +5V

Description	PN: RFSP5TA2M40G-H									
	SP5T Reflective Switch									
	Low Power Cold Switching									
Parameters	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Units
Frequency Range	0.2-12			12-26			26-43.5			GHz
Insertion Loss		3	3.5		3.9	4.5		5.5	6.5	dB
Insertion Loss Temperature Coefficient		0.003			0.003			0.003		dB/°C
Isolation	60			50			45			dB
Input VSWR		2.0	2.5		2.2	3		2.5	3	:1
Output VSWR		2.0	2.5		2.2	3		2.2	3	:1
DC Power Dissipation		1.2			1.2			1.2		W
0.1dB Compression Point (Po.1dB)		23			23			23		dBm
IIP3		55			50			50		dBm
Switching Speed			100			100			100	ns
Weight	/									Ounces
Impedance	50									Ω
Bias Current (+5V/-5V)	240 / 50									mA
Input / Output Connectors	2.92mm - Female									
Finishing	Gold Plating									
Material	Aluminum									
Sealing	Hermetically Sealed (Laser Welded)									

Hermetically Sealed Reflective Coaxial Single Pole Five Throw Switch 0.2-43.5GHz



Absolute Maximum Ratings

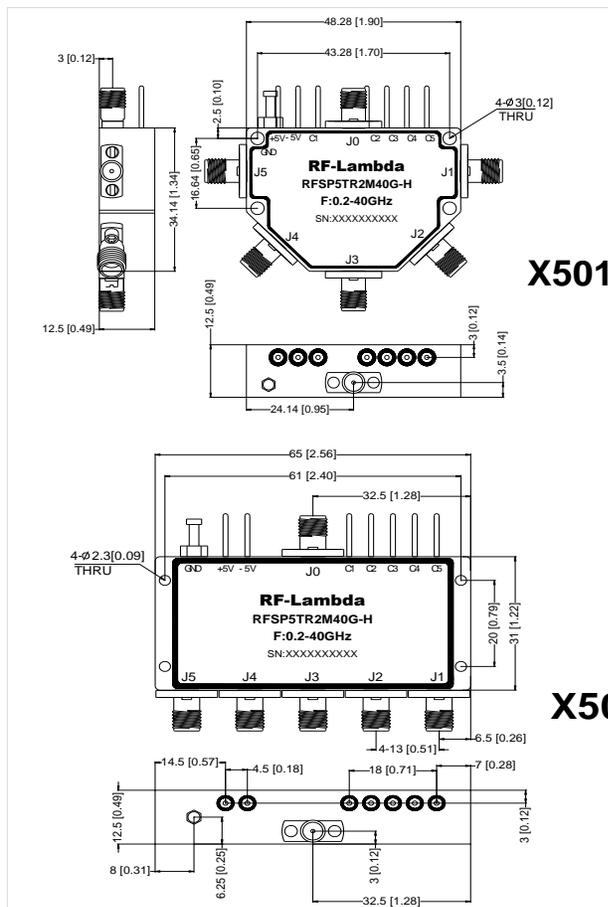
Biassing	+5V±10% / -5V±10%
RF Input Power	+23 dBm
TTL Control Voltage	0~0.8V / 2~5V

Ordering Information

Part No.	ECCN	Description
RFSP5TR2M40G-H	EAR99	SP5T 0.2-43.5GHz PIN Diode Switch

Environmental Specifications

Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions



Outline Drawing:

All Dimensions in mm [inches]

Drawings are to show mechanical dimensions. Part number may not be accurate.

Truth Table

Control Input TTL					Signal Path State
C5	C4	C3	C2	C1	
1	1	1	1	0	Jo-J1
1	1	1	0	1	Jo-J2
1	1	0	1	1	Jo-J3
1	0	1	1	1	Jo-J4
0	1	1	1	1	Jo-J5

Control Pin Customization available upon request



Important Notice

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Hermetically Sealed Reflective Coaxial Single Pole Five Throw Switch 0.2-43.5GHz