

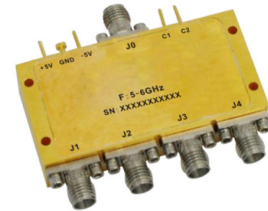


Reflective Coaxial SP2T Switch 4-12GHz

Features

- Wide Band Operation 4-12GHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request
- Hermetically sealed package up to 60,000 ft available upon request.

225-OSR0204001200A



Typical Applications

- Wireless Infrastructure
- Military & Aerospace
- Fiber Optics

RF Microwave & VSAT
Test Instrument

Parameters	Min.	Typ.	Max.	Units
Frequency Range	4-12			GHz
Insertion Loss		1.2	1.5	dB
Insertion Loss Temperature Coefficient		0.003		dB/ °C
Isolation	50	60		dB
Input VSWR		1.3	1.5	
Output VSWR		1.3	1.5	
RF Input power (CW)			50	W
DC Power Dissipation (CW)		0.8		W
0.1dB Compression P0.1dB		47		dBm
IIP3		55		dBm
Switching Speed			1	us
Weight	5.99			ounces
Impedance	50			Ω
Bias Current (+5V)	150			mA
Input /Output Connectors	SMA-Female			
Control PIN				
Finishing	Gold Plating			
Material	Aluminum			
Sealing	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Biasing	+5V
TTL Control Voltage	0~0.8V/2.8~5V

Ordering Information

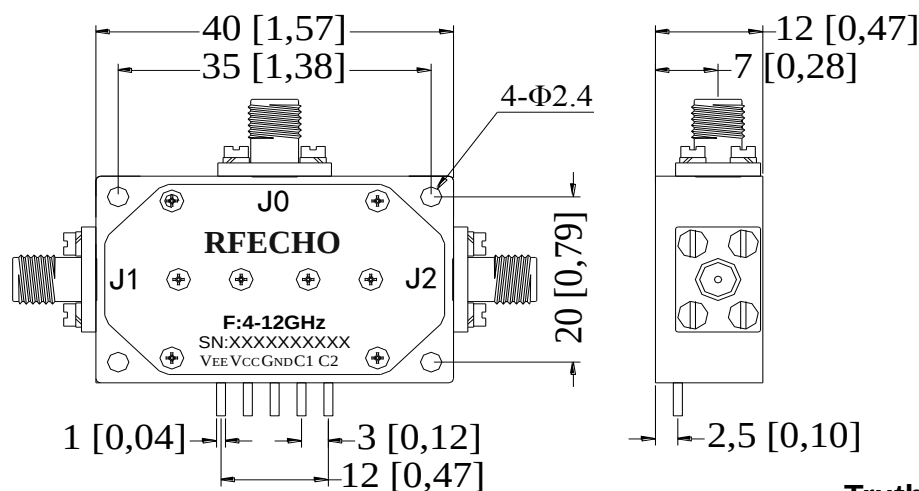
Part No.	ECCN	Description
DBSR0204001200A	EAR99	SP2T 4-12GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-45°C~+85°C
Storage Temperature	-55°C~+125°C
Altitude	30,000 ft. (Epoxy Sealed Controlled environment)
	60,000 ft. 1.0psi min (Hermetically Sealed 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)



Truth Table

Control Input TTL		Signal Path State
C1	C2	
1	0	J0-J1
0	1	J0-J2
Control Pin Customization available upon request		