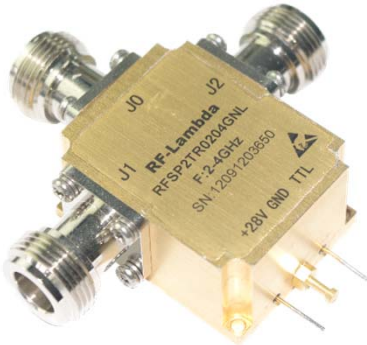




### Reflective Coaxial SP2T Switch 0.02 - 0.5GHz



#### Features

- Wide Band Operation 0.02-0.5GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request

Electrical Specifications,  $T_A = +25^\circ\text{C}$ ,  $V_{dd} = +5\text{V}$ ,  $TTL = 0 / +5\text{V}$

Description	PN: RFSP2TR0005MK			
	SP2T Reflective Switch			
	High Power Cold Switching			
Parameters	Min.	Typ.	Max.	Units
Frequency Range	0.02		0.5	GHz
Insertion Loss			1.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Isolation	40			dB
Input VSWR			1.5	: 1
Output VSWR			1.5	: 1
RF Input Power Pulse 1% duty cycle (1us)			500	W
DC Power Dissipation			1	W
0.1dB Compression Point (Po.1dB)		50		dBm
IIP <sub>3</sub>		55		dBm
Switching Speed			2.5	us
Weight				ounces
Impedance	50			$\Omega$
Bias Current (+5V)	200			mA
Input / Output Connectors	N-Female			
Finish	Gold Plated			
Material	Brass			
Sealing	Hermetically Sealed (Optional)			

Reflective Coaxial Single Pole Double Throw Switch 0.02 - 0.5GHz



### Absolute Maximum Ratings

Biasing	+5V±10%
TTL Control Voltage	0~0.8V / 2.8~5V

**Note:** TTL pins cannot be connected to the negative voltage otherwise the internal driver will be damaged.

### Ordering Information

Part No.	ECCN	Description
RFSP2TR0005MK	EAR99	SP2T 0.02-0.5GHz PIN Diode Switch

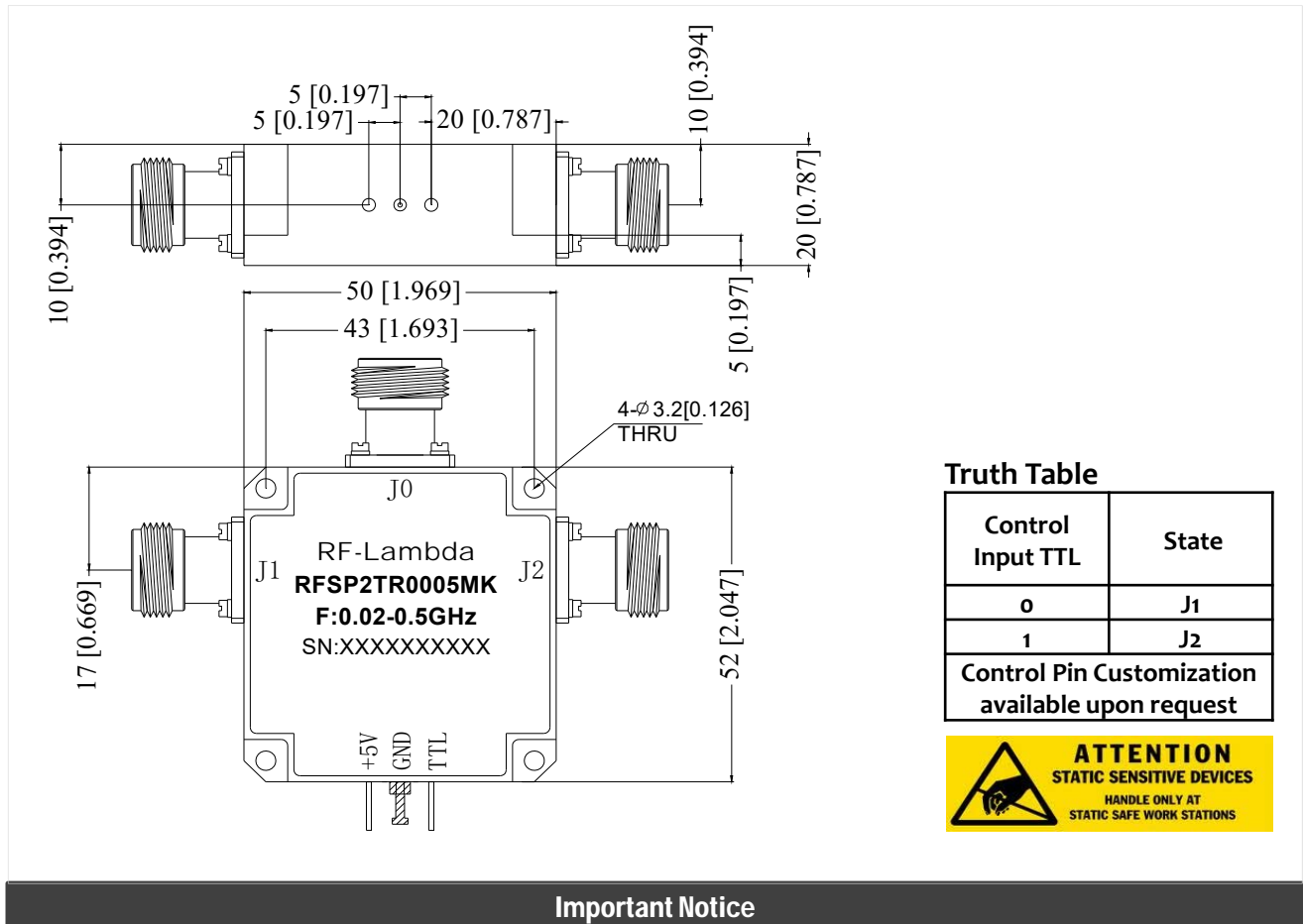
### Environmental Specifications

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 Sealed Un-controlled environment) (Optional)
Vibration	25g RMS (15 degrees 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35°C, 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	State
0	J1
1	J2

Control Pin Customization available upon request



### Important Notice

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