



Absorptive 0.05-20GHz Coaxial SP160T Switch



Features

- Ultra Wide Band Operation 0.05-20GHz
- 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 60,000ft available upon request.

Electrical Specifications, TA = +25° C, With Vdd = +5V, Vss = -5V & VCTL = 0/ +5V

Description	PN: RFSP160TA0020G			
	SP160T Absorptive Switch			
	Low Power Cold Switching			
Parameters	Min	Typ.	Max	Units
Frequency Range	0.05-20			GHz
Insertion Loss		28		dB
Insertion Loss Temperature Coefficient		0.02		dB/°C
Isolation	50	60		dB
Input VSWR		1.5	2.0	ratio
Output VSWR		1.5	2.0	ratio
RF Input power (CW)			0.5	W
Power Dissipation (CW)				W
Po.1dB			30	dBm
IM3				dBc
IIP3		50		dBm
Switching Speed			70	ns
Weight	/			ounces
Impedance	50			Ω
Biasing(+5V/-5V)	/			mA
Input /Output Connector	SMA-Female/SMA-Female (Standard)			
Finishing	Gold Plating			
Material	Aluminum			
Seal	Hermetically Sealed (optional)			

Absorptive Coaxial Single Pole One hundred and sixty Throw Switch 0.05-20GHz



Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
TTL Control Voltage	0~0.8V/2~5V
Operating Temperature(°C)	-45 ~ +85
Storage Temperature(°C)	-50 ~ +125

Environment specifications

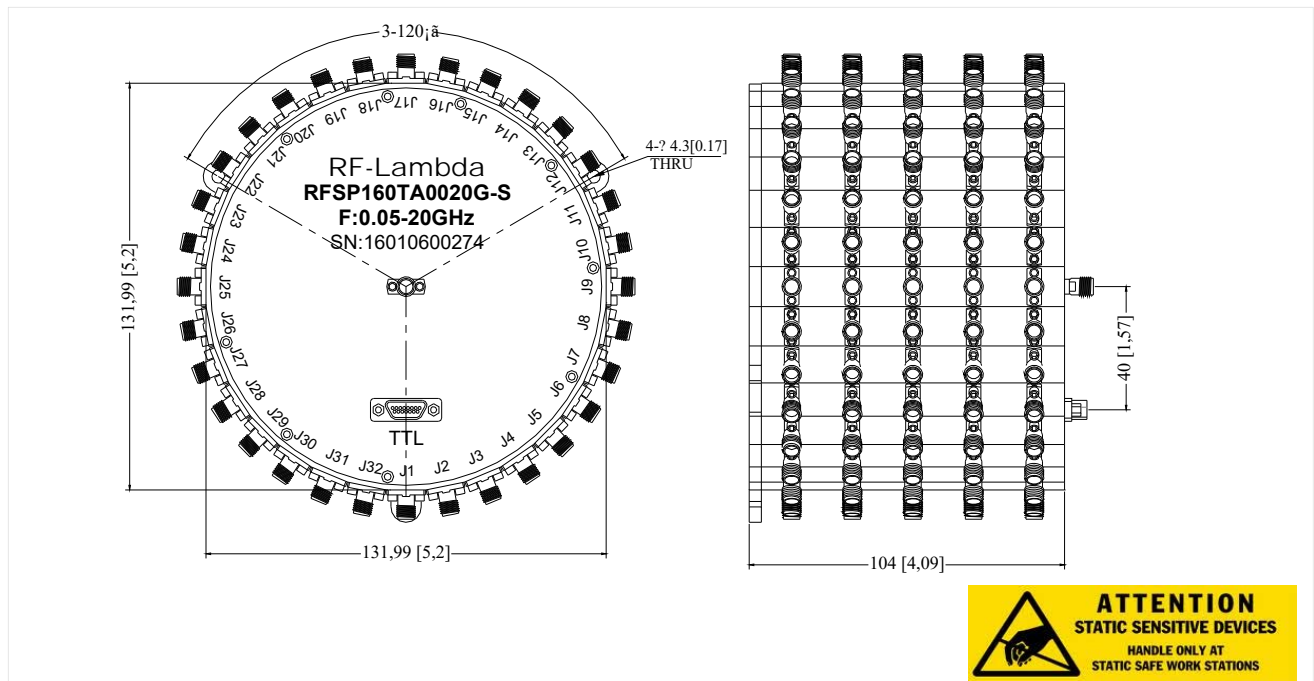
Operational Temperature (°C)	-45 ~ +85
Storage Temperature (°C)	-50 ~ +125
Altitude	30,000 ft. (Epoxy Seal Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment) (Optional)
Vibration	25g rms (15 degree 2KHz) endurance, 1 hour per axis
Humidity	100% RH at 35c, 95%RH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

Ordering Information

Part No	ECCN	Description
RFSP160TA0020G	EAR99	SP160T 0.05-20GHz PIN Diode Switch

Outline Drawing:

All Dimensions in mm (inches)



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