



Absorptive Coaxial SP6T Switch 2 - 8GHz

Features

- Wide Band Operation 2-8GHz
- TTL compatible driver included
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Customization available upon request
- Hermetically sealed package up to 60,000ft available upon request.



Electrical Specifications, TA = +25°C, Vdd = +5V / -12V, TTL = 0 / +5V

Description	PN: RFSP6TA0208G			
	SP6T Absorptive Switch			
	High Power Cold Switching			
Parameters	Min	Typ	Max	Units
Frequency Range	2-8			GHz
Insertion Loss			2.0	dB
Insertion Loss Temperature Coefficient		0.003		dB/°C
Isolation	60			dB
Input VSWR			1.5	:1
Output VSWR			1.5	:1
RF Input power			37	dBm
DC Power Dissipation		1.1		W
0.1dB Compression Point (Po.1dB)		37		dBm
IIP ₃		55		dBm
Switching Speed			100	ns
Weight	1.06			Ounces
Impedance	50			Ω
Bias Current (+5V / -12V)	240/80			mA
Input / Output Connectors	SMA-Female			
Finishing	Gold Plating			
Material	Aluminum			
Sealing	Hermetically Sealed (optional)			



Absolute Maximum Ratings

Biasing	+5V±10% -12V ±10%
TTL Control Voltage	0~0.8V/2~5V

Ordering Information

Part No.	ECCN	Description
RFSP6TA0208G	EAR99	SP6T 2-8GHz 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 35c, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

Typical Performance Plots

Insertion Loss



Input VSWR



Output VSWR

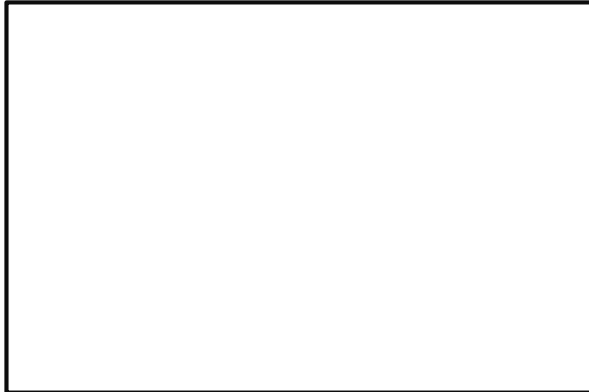


Isolation

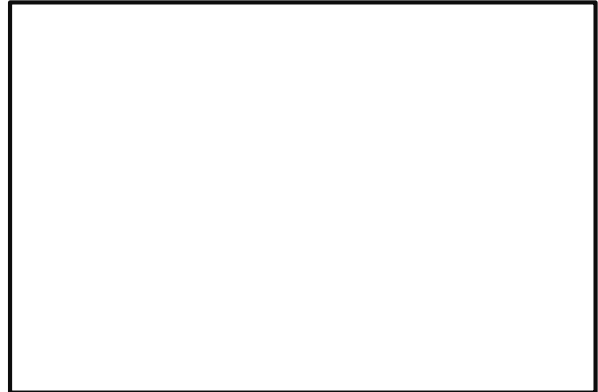




Switching Speed



Switching Speed



Outline Drawing:

All Dimensions in mm [inches]

Control Input TTL			Signal Path State
C3	C2	C1	
0	0	0	Jo-J1
0	0	1	Jo-J2
0	1	0	Jo-J3
0	1	1	Jo-J4
1	0	0	Jo-J5
1	0	1	Jo-J6

Control Pin Customization available upon request

ATTENTION
STATIC SENSITIVE DEVICES
HANDLE ONLY AT
STATIC SAFE WORK STATIONS

Important Notice

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Absorptive Coaxial Single Pole Six Throw Switch 2 - 8GHz