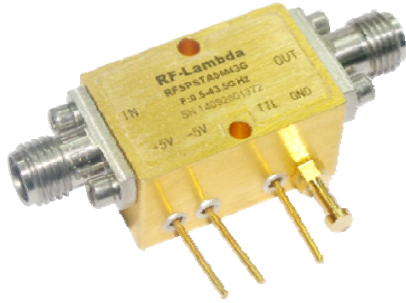




### Absorptive 0.5-43.5GHz Coaxial SPST Switch



#### Features

- Wide Band Operation 0.5-43.5GHz
- TTL compatible driver include
- Fast Switching Speed
- Low Insertion Loss and High Isolation
- Temperature Range -45°C~+85°C
- Customization available upon request

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

Description	PN: RFSPSTA5M43G						
	SPST Absorptive Switch						
	Low Power Cold Switching						
Parameters	Min	Type	Max	Min	Type	Max	Units
Frequency Range	0.5	10.00	18.00	20.00	30	43.5	GHz
Insertion Loss	1.00	2.00	3.00	3.50	4.50	5	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/°C
Insertion Loss Over Temp (-45°C~+85°C)		0.10	0.15		0.20	0.30	±dB
Isolation	60	80	60	60	65	50	dB
Input VSWR(ON State)	1.5	1.5	2	2	2.5	2.5	
Input VSWR(OFF State)	5			5			
Output VSWR (ON State)	1.5	1.5	2	2	2.5	2.5	
Output VSWR (OFF State)	3	3	2	2	2	2.5	
Power Dissipation (CW)		0.2			0.2		W
IM3		-33			-33		dBc
Switching Speed		50			50		ns
Input Max			23			23	dBm
Weight			50				g
Impedance			50				Ohms
Biassing (+5V/-5V)			50/50				mA
Input /Output Connector	2.92mm-Female (Standard)						
Finishing	Gold plating						
Material	copper						
Control Logic TTL	TTL				Status		
	0				OFF		
	1				ON		

Absorptive Coaxial Single Pole Single Throw Switch 0.5-43.5GHz



# RF-LAMBDA

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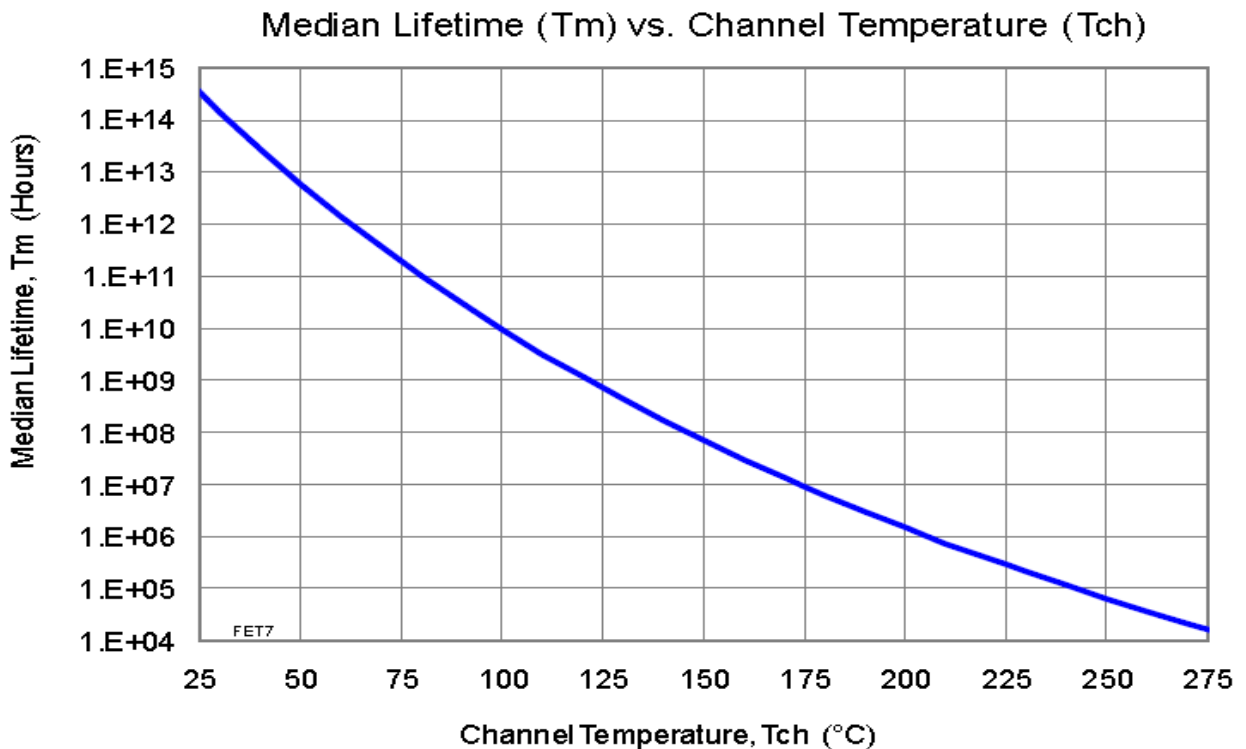
## RFSPSTA5M43G

Absolute Maximum Ratings	
Biasing	+5V/-5V
TTL Control Voltage	+5V/0V
Input RF power	+23dBm
Storage Temperature (C°)	-50 ~ +125

Biasing Up Procedure	
Step 1	-5V
Step 2	+5V
Step 3	TTL
Power OFF Procedure	
Step 1	+5V
Step 2	-5V
Step 3	TTL

Environment specifications	
Operational Temperature (C°)	-45 ~ +85
Storage Temperature (C°)	-50 ~ +125
Altitude	30,000 ft (Controlled environment) 60,000 ft 1.0psi min (Hermetically Seal Un-controlled environment)
Vibration	35g rms (15 degree 2KHz)
Humidity	100% RH at 35c, 95%RH at 40 deg c
Shock	20G for 11msc

Ordering Information		
Part No	ECCN	Description
RFSPSTA5M43G	EAR99	SPST 0.5-43.5GHz PIN Diode Switch



Absorptive Coaxial Single Pole Single Throw Switch 0.5-43.5GHz

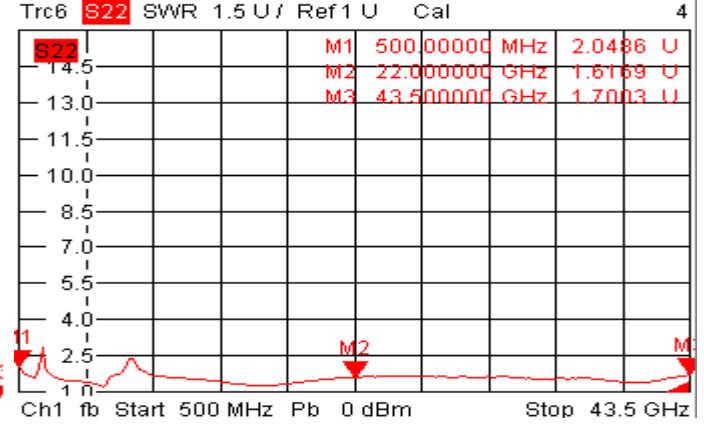
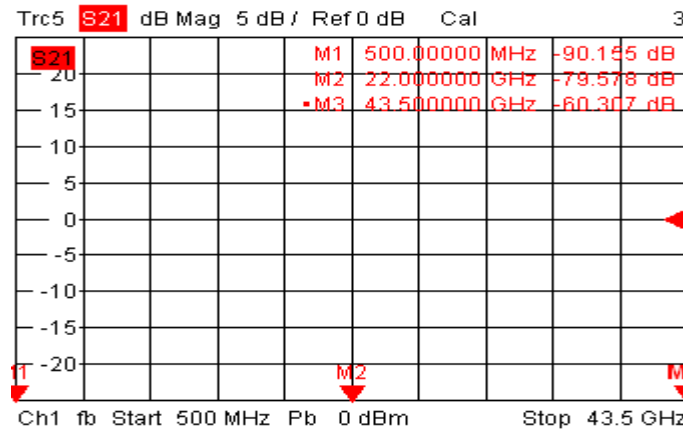
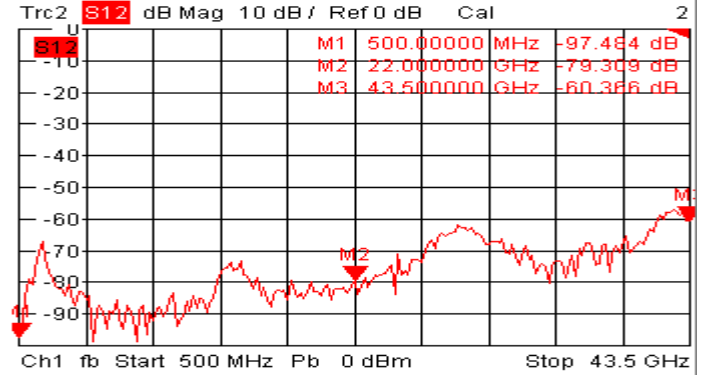
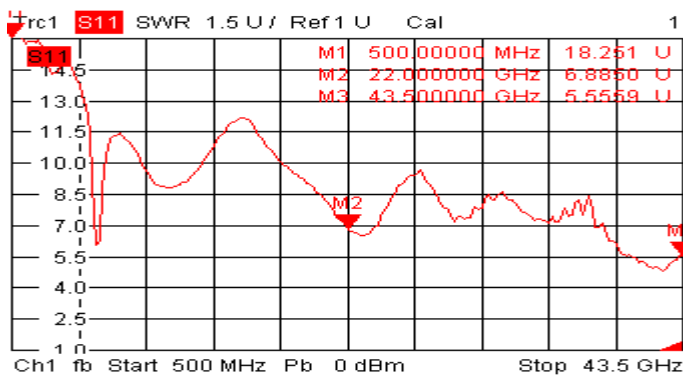
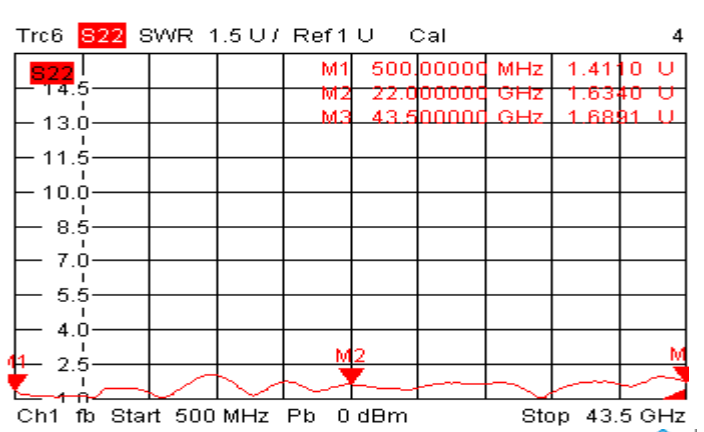
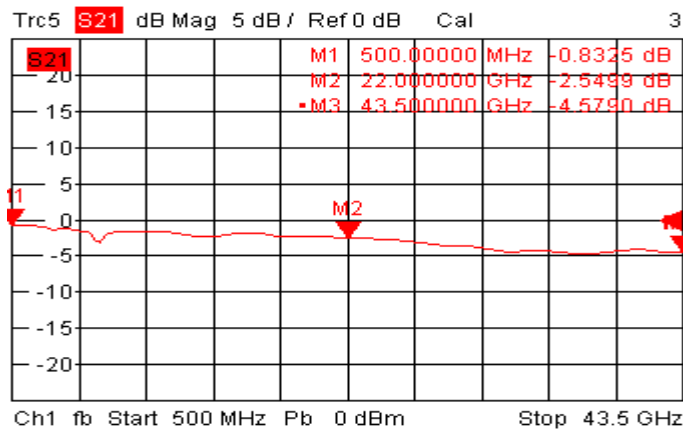
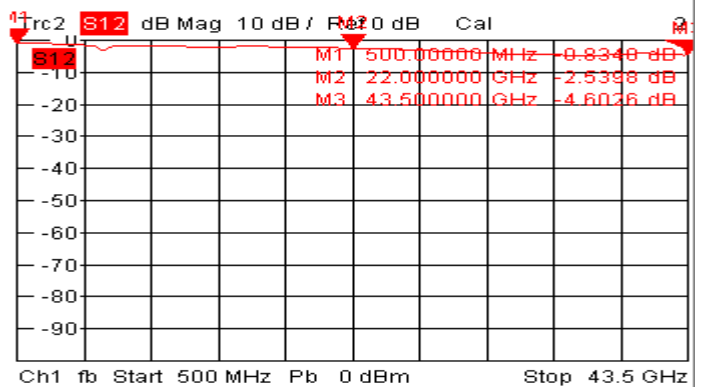
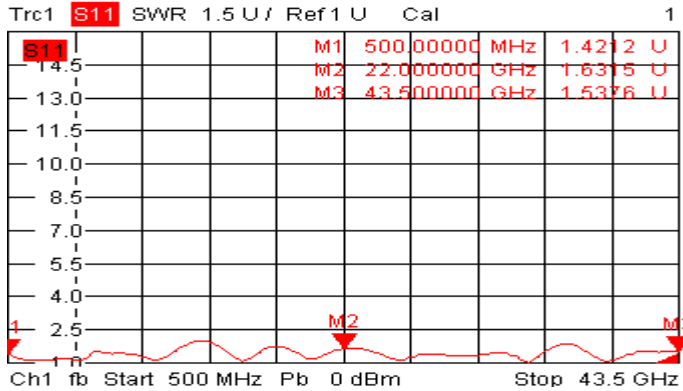


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## RFSPSTA5M43G

Absorptive Coaxial Single Pole Single Throw Switch 0.5-43.5GHz





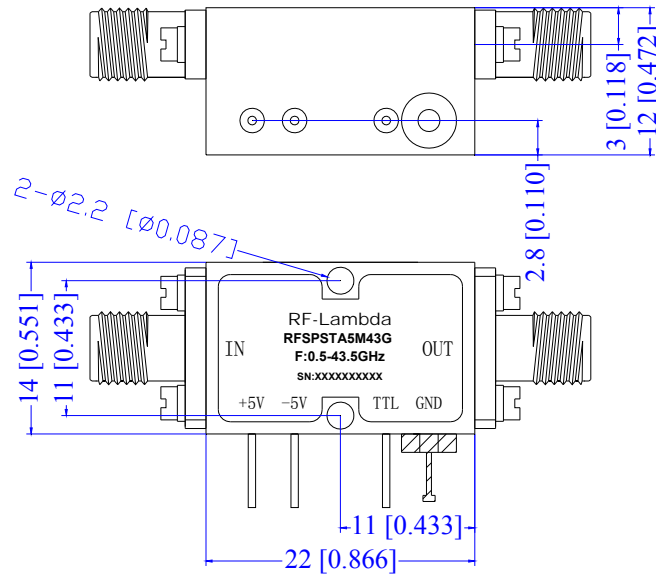
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## RFSPSTA5M43G

### Outline Drawing:

All Dimensions in mm ( inches )



### Important Notice

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Absorptive Coaxial Single Pole Single Throw Switch 0.5-43.5GHz