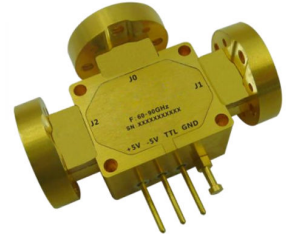




WR12 Reflective Coaxial SP2T Switch 60-90GHz

Features

- Wide Band Operation 60 - 86GHz
- Functional Bandwidth : 50 - 90GHz
- Fast Switching Speed
- Low Insertion Loss and High Isolation



Typical Applications

- Wireless Infrastructure
- 5G communication
- Test and measurement Instrument

RF Microwave & VSAT
Fiber Optics

Parameters	Min.	Typ.	Max.	Min.	Typ.	Max.	Units
Frequency Range	60-75			75-86 (Functional to 90)			GHz
Insertion Loss		4.5	5.5		5.5	7.0	dB
Insertion Loss Temperature Coefficient		0.003			0.003		dB/ ° C
Isolation	30	35		24	27		dB
Input VSWR		2.2	3		2.2	3	: 1
Output VSWR		2.5	3		2.5	3	: 1
RF Input Power (CW)			23			23	dBm
DC Power Dissipation		0.3			0.3		W
0.1dB Compression Point(P0.1dB)		23			23		dBm
IIP3		45			45		dBm
Switching Speed		100			100		ns
Weight	0.85 Max.						ounces
Impedance	50						Ω
Bias Current (+5V / -5V)	50/20Max.						mA
Input / Output Connectors	WR12						
Finish	Gold Plated						
Material	Aluminum						
Sealing	Hermetically Sealed (Optional)						



Absolute Maximum Ratings

Biasing	+5V±10%/-5V±10%
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Ordering Information

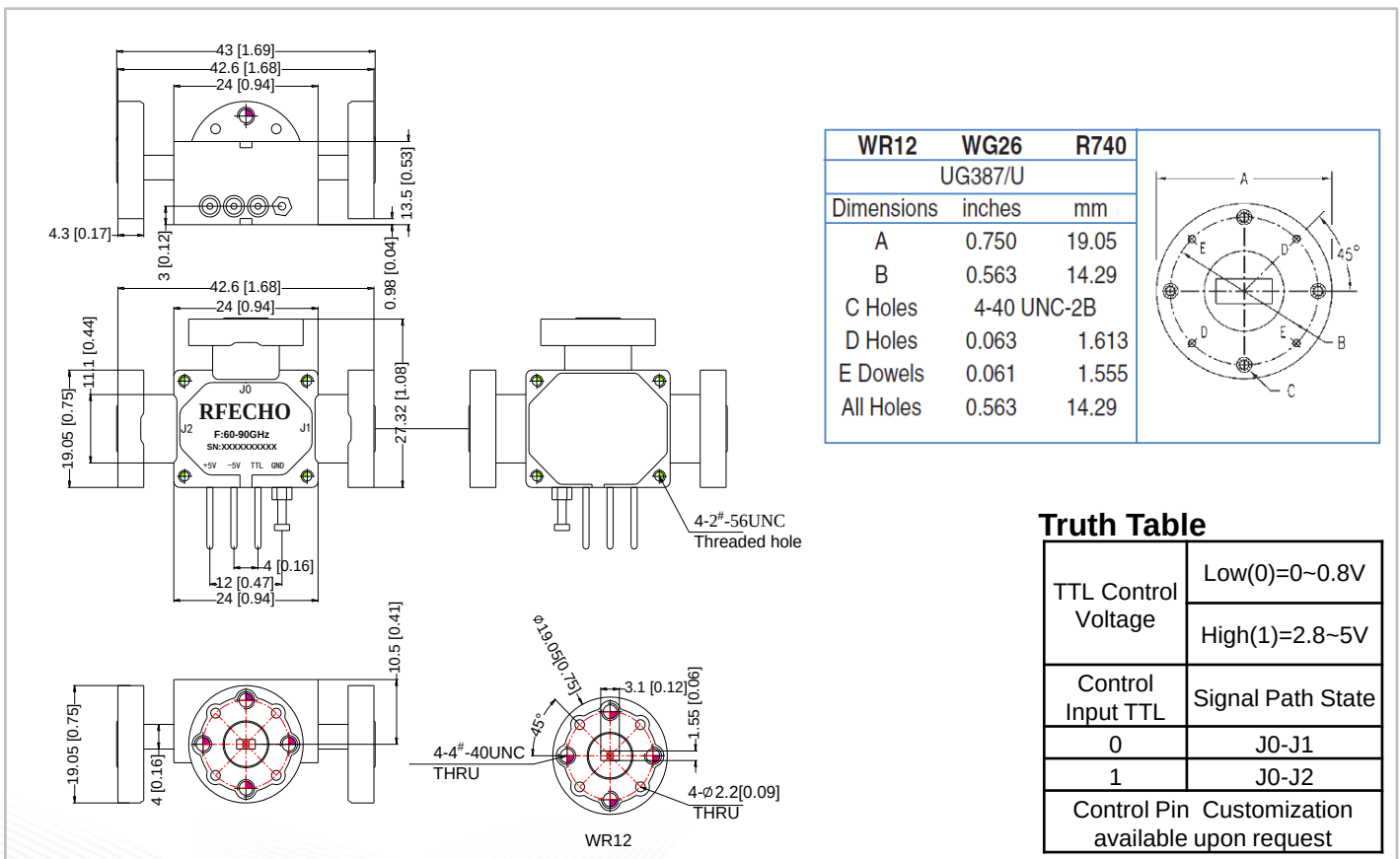
Part No.	Description
DBSR0250009000A	SP2T 60-90GHz PIN Diode Switch

Environmental Specifications

Operational Temperature	-40°C~+85°C
Storage Temperature	-50°C~+105°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 35°C, 95%RH at 40°C
Shock	20G for 11msec half sine wave, 3 axis both directions

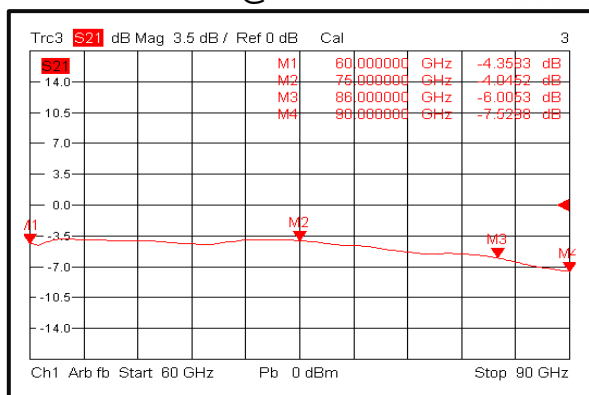
Outline Drawing:

All Dimensions in mm (inches)

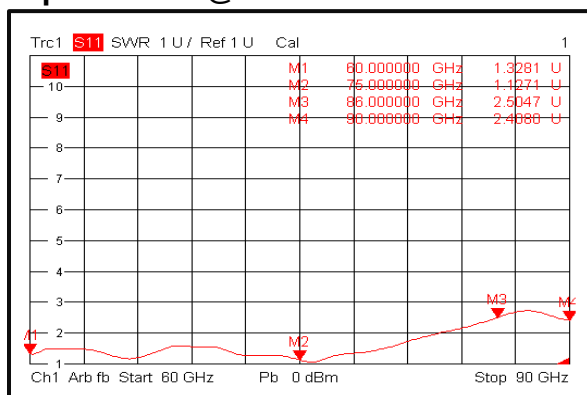




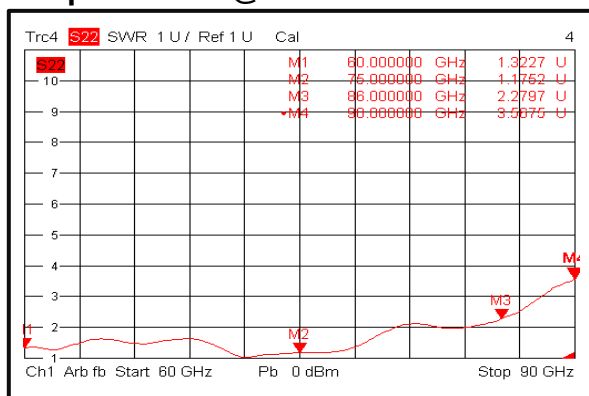
Insertion Loss @+25°C



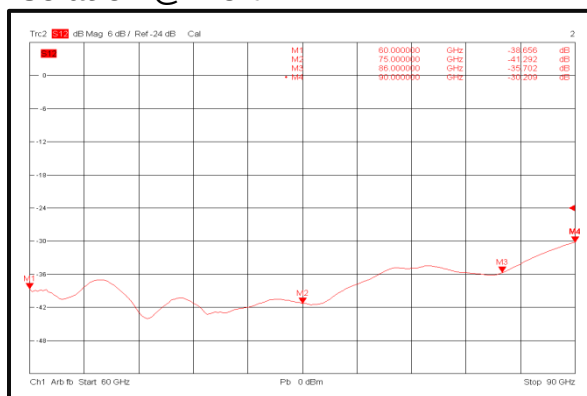
Input VSWR @+25°C



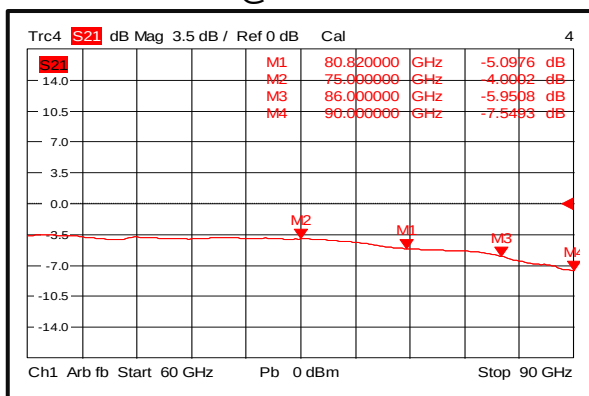
Output VSWR @+25°C



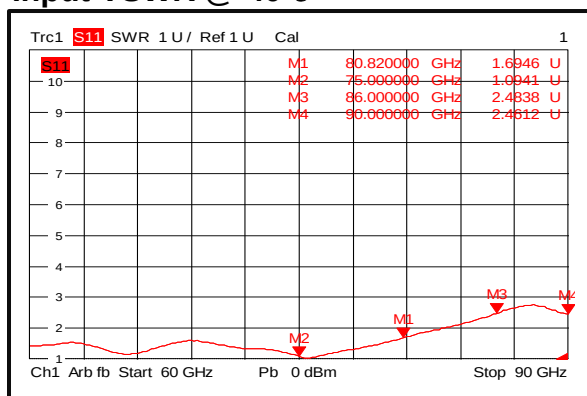
Isolation @+25°C



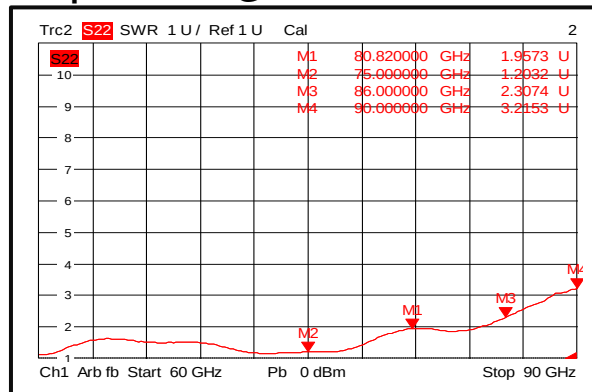
Insertion Loss @-40°C



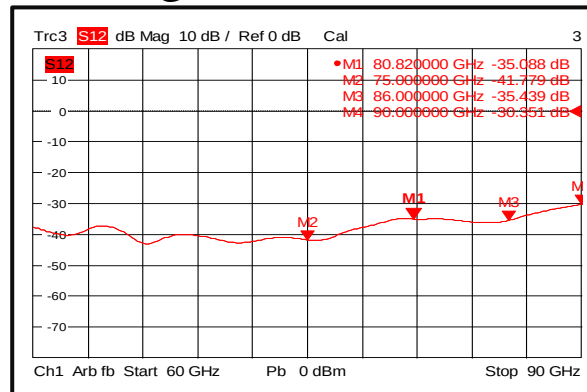
Input VSWR @-40°C



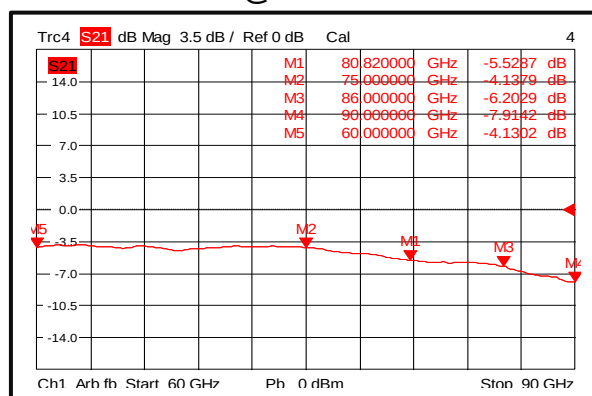
Output VSWR @-40°C



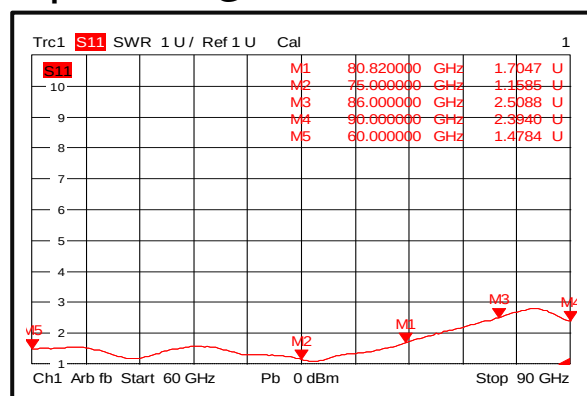
Isolation @-40°C



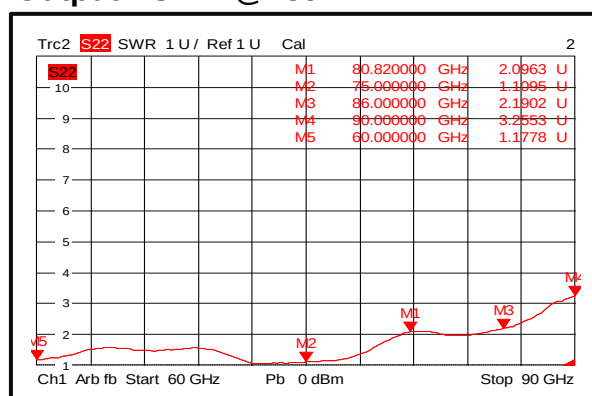
Insertion Loss @+85°C



Input VSWR @+85°C



Output VSWR @+85°C



Isolation @+85°C

