

# RF Power Switching Connectors



**RF Power switching connector** is surface/edge mounted.

It's a "two in one" solution replacing the existing standard RF switches by integrating the switch function into a receptacle connector.

This solution provides a unique means of switching between two RF signal paths.

As user friendly as a standard connector, the switch is mechanically activated by mating and unmating the connector.

### Main advantages

- Reliable
- Increases the density
- Excellent electrical and mechanical performances
- Reduction of the cost of ownership
- Better RF adaptation
- Good isolation
- Available in right or left versions

### Main applications

- Telecom applications
- RF power amplifiers



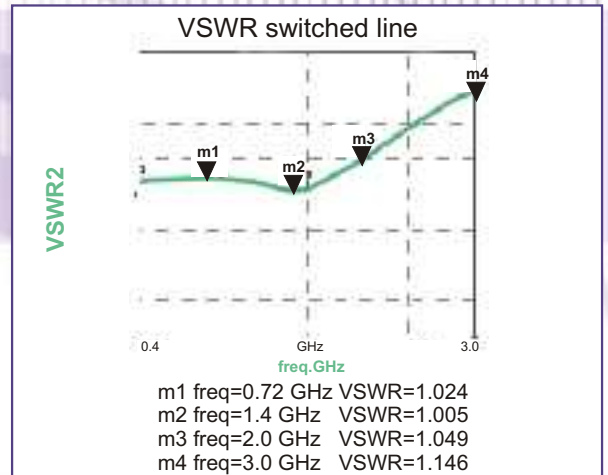
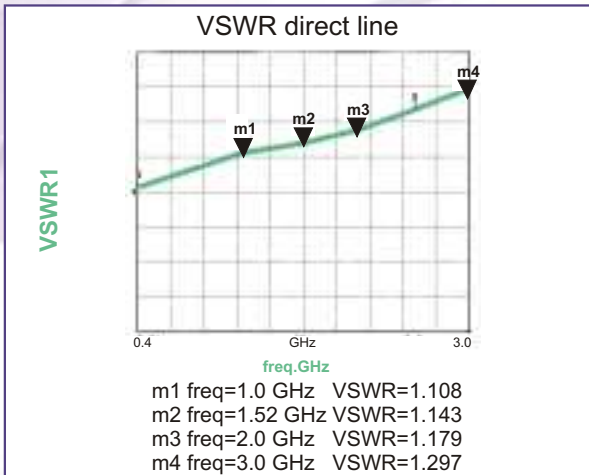
### Interfaces

- TNC
- N
- SMA
- QMA and QN, both Quick Lock Formula® certified

## N RF Power Switching Connectors

Impedance	:	50 Ω
Frequency	:	DC-3 GHz
VSWR	:	1.1+0.1000 x F (GHz) Maxi
Isolation at	DC to 1 GHz	: -47 dB typical
	1 to 2 GHz	: -43 dB typical
	2 to 3 GHz	: -40 dB typical
Insertion Loss at	DC to 1 GHz	: 0.1 dB maxi
	1 to 2 GHz	: 0.15 dB maxi
	2 to 3 GHz	: 0.2 dB maxi
RF leakage	:	NA
Voltage rating	:	300 Veff maxi
Dielectric withstanding voltage	:	500 Veff mini
Insulation resistance	:	5000 MΩ mini
Power withstanding	:	100 W (at 0.9 GHz and 1.8 GHz)

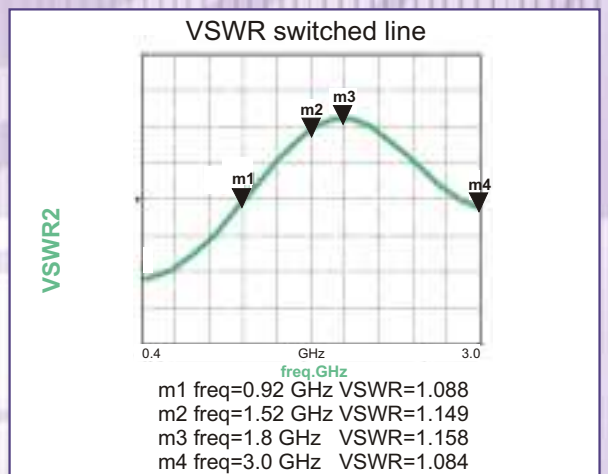
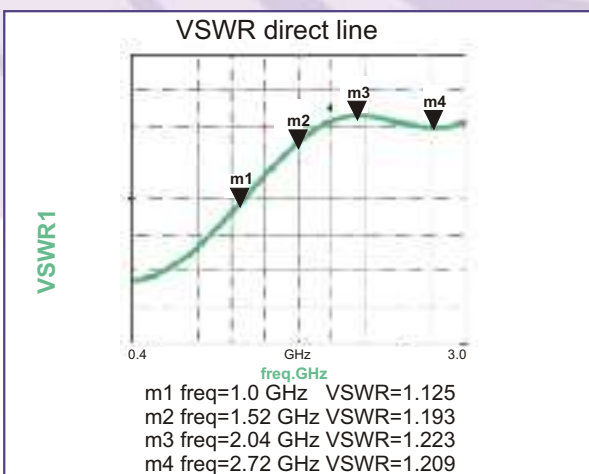
Type	Left	Right
Part number	<b>R161 428 223</b>	<b>R161 428 233</b>



## SMA RF Power Switching Connectors

Impedance	:	50 Ω
Frequency	:	DC-3 GHz
VSWR	:	1.1+0.1000 x F (GHz) Maxi
Isolation at	DC to 1 GHz	: -47 dB typical
	1 to 2 GHz	: -43 dB typical
	2 to 3 GHz	: -40 dB typical
Insertion Loss at	DC to 1 GHz	: 0.1 dB maxi
	1 to 2 GHz	: 0.15 dB maxi
	2 to 3 GHz	: 0.2 dB maxi
RF leakage	:	NA
Voltage rating	:	300 Veff maxi
Dielectric withstanding voltage	:	500 Veff mini
Insulation resistance	:	5000 MΩ mini
Power withstanding	:	80 W (at 0.9 GHz) 50 W (at 1.8 GHz)

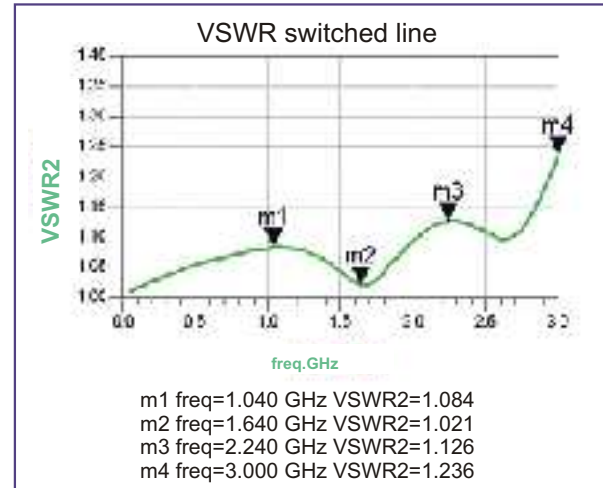
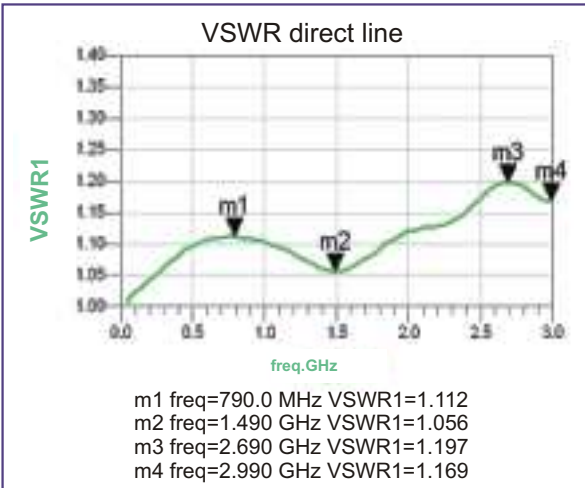
Type	Right
Part number	<b>R124 422 001</b>



## TNC RF Power Switching Connectors

Impedance		: 50 Ω
Frequency		: DC-3 GHz
Isolation at	DC to 1 GHz	: -47 dB typical
	1 to 2 GHz	: -43 dB typical
	2 to 3 GHz	: -40 dB typical
Insertion Loss at	DC to 1 GHz	: 0.1 √F(GHz) dB max
	1 to 2 GHz	: 0.15 dB maxi
	2 to 3 GHz	: 0.2 dB maxi
Voltage rating		: 300 Veff maxi
Power withstanding		: 80 W (at 0.9 GHz) 50 W (at 1.9 GHz)

Type	Left	Right
Part number	<b>R143 422 947</b>	<b>R143 422 957</b>



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 The next connexion