

PART NUMBER SELECTION

R 5 7 7



RF Connectors :

- 3 : SMA up to 3 GHz
- E : QMA up to 6 GHz (4)
- 4 : SMA up to 18 GHz
- F : SMA up to 26.5 GHz
- 8 : SMA 2.9 up to 40 GHz (5)
- 9 : DIN 1.6/5.6 up to 2.5 GHz

Type :

- 1 : Failsafe
- 2 : Failsafe + I.C.
- 3 : Latching
- 4 : Latching + I.C.
- 5 : Latching + S.C.O. (1)
- 6 : Latching + S.C.O. + I.C. (1)

Actuator Voltage :

- 2 : 12 Vdc
- 3 : 28 Vdc

Actuator Terminals and Fixing :

- 0 : Solder pins with bracket
- 2 : Solder pins without bracket
- 5 : D-Sub connector with bracket
- 7 : D-Sub connector without bracket

Options :

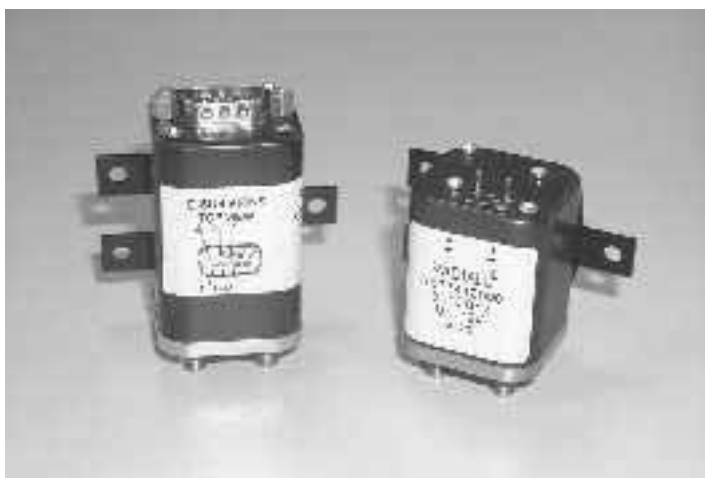
- 0 : Without option
- 1 : Positive common (2)(3)
- 3 : With suppression diodes (1)
- 4 : With suppression diodes and positive common (2)(3)

TTL Option :

- 0 : Without TTL driver
- 1 : With TTL Driver (high level)(1)(2)

I.C. : Indicator contact / S.C.O. : Self Cut-Off

- (1) : Suppression diodes are already included in self cut-off & TTL option
- (2) : Polarity is not relevant to application for switches with TTL driver
- (3) : Positive common shall be specified only with type 3, 4, 5, & 6 because failsafe switches can be used with both polarities



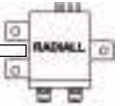
(4) : The "QLF" trademark (Quick Lock Formula®) standard applies to QMA and QN series and guarantees the full intermateability between suppliers using this trademark. Using QLF certified connectors also guarantees the specified level of RF performances

(5) : Connector SMA2.9 is equivalent to "K connector", registered trade mark of Anritsu



Technical data sheets are available on : www.radiall.com

For more technical information, consult us / E-mail : USA:rfswitchusa@radiall.com / Rest of the word : switchingproducts@radiall.com



RF PERFORMANCES

Connectors	Frequency Range GHz		V.S.W.R. (max)	Insertion Loss (max) dB	Isolation (min) dB	Impedance Ohms
DIN 1.6/5.6	DC - 2.5	DC - 1	1.20	0.20	80	75
		1 - 2.5	1.30	0.30	70	
QMA	DC - 6	DC - 3	1.20	0.20	80	50
		3 - 6	1.20	0.30	70	
SMA	DC - 3 DC - 18 DC - 26.5	DC - 3	1.20	0.20	80	50
		3 - 8	1.30	0.30	70	
		8 - 12.4	1.40	0.40	65	
		12.4 - 18	1.50	0.50	60	
		18 - 26.5	1.70	0.70	50	
SMA 2.9	DC - 40	DC - 6	1.30	0.30	70	50
		6 - 12.4	1.40	0.40	60	
		12.4 - 18	1.50	0.50	60	
		18 - 26.5	1.70	0.70	55	
		26.5 - 40	1.90	1.00	50	

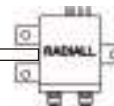
See page DPDT-10 for typical RF performances

ADDITIONAL SPECIFICATIONS

Operating mode		Failsafe		Latching	
Nominal operating voltage (across operating temperature)	Vdc	12 (10.2 to 13)	28 (24 to 30)	12 (10.2 to 13)	28 (24 to 30)
Coil resistance (+/-10%)	Ω	35	200	38	225
Nominal operating current at 23°C	mA	340	140	320	125
Average power		See Power Rating Chart page Intro-14			
Switching time (max)	ms	10			
Life (min)		2.5 million cycles			
Connectors		SMA - SMA 2.9 - QMA - SMB - SMC - DIN 1.6/5.6			
Actuator terminals		Solder pins			
Operating temperature range	DIN 1.6/5.6	-25 to +70 °C			
	SMA - SMA 2.9 - QMA	-40 to +85 °C			
Storage temperature range °C	DIN 1.6/5.6	-40 to +85 °C			
	SMA - SMA 2.9 - QMA	-55 to +85 °C			
Vibration (MIL STD 202, method 204D, cond.C)		10-2000 Hz , 20g		operating	
Shock (MIL STD 202, method 213B, cond.G)		50g / 11 ms, ½ sine		operating	

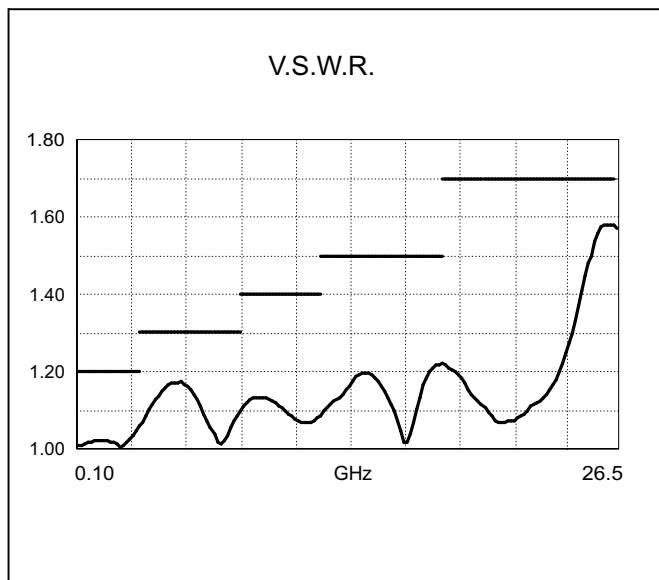
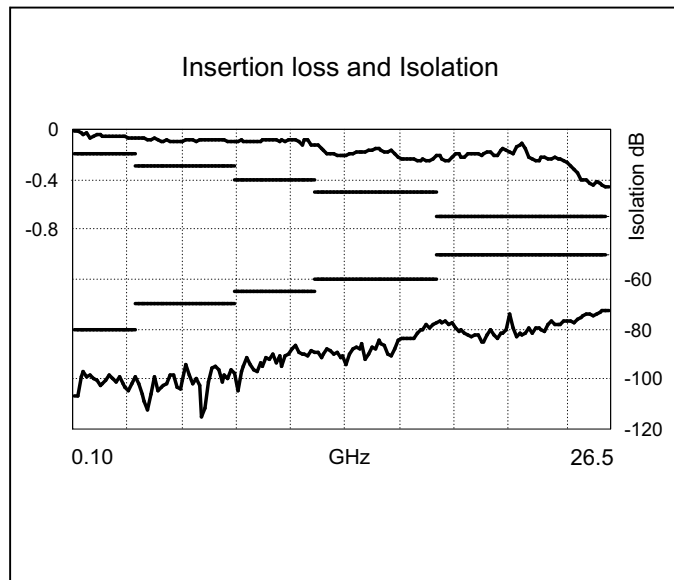
Technical data sheets are available on : www.radiall.com

For more technical information, consult us / E-mail : USA : rfswitchusa@radiall.com / Rest of the world : switchingproducts@radiall.com

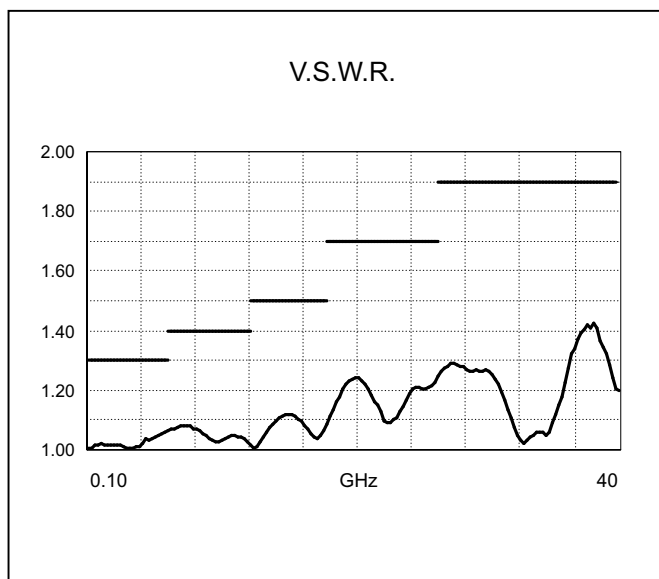
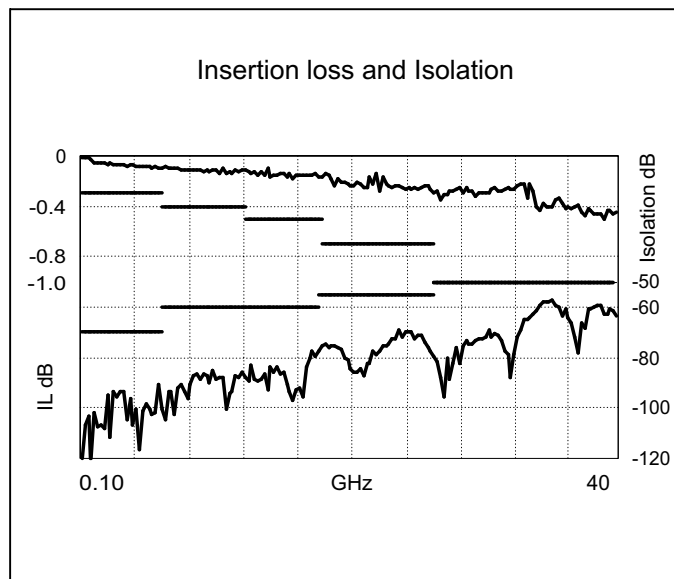


R577 TYPICAL RF PERFORMANCES

Example : DPDT SMA up to 26.5 GHz

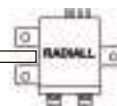


Example : DPDT SMA 2.9 up to 40 GHz



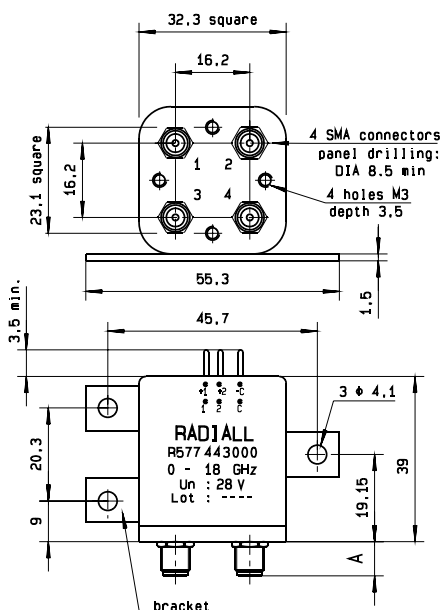
Technical data sheets are available on : www.radiall.com

For more technical information, consult us / E-mail : USA : rfswitchusa@radiall.com / Rest of the world : switchingproducts@radiall.com



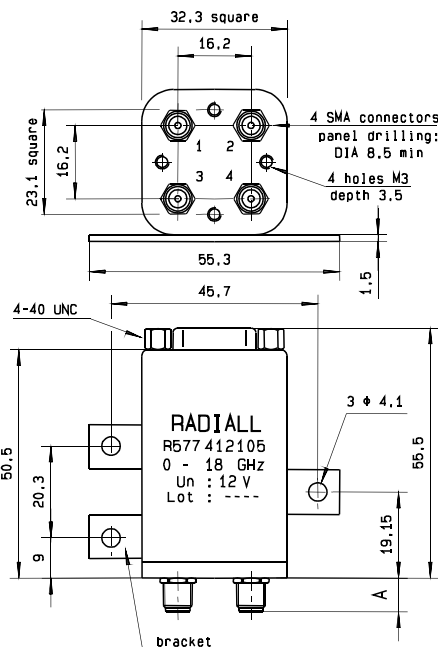
TYPICAL OUTLINE DRAWING

With solder pins and bracket



See page DPDT-19 for pin identification

With D-Sub connector and bracket



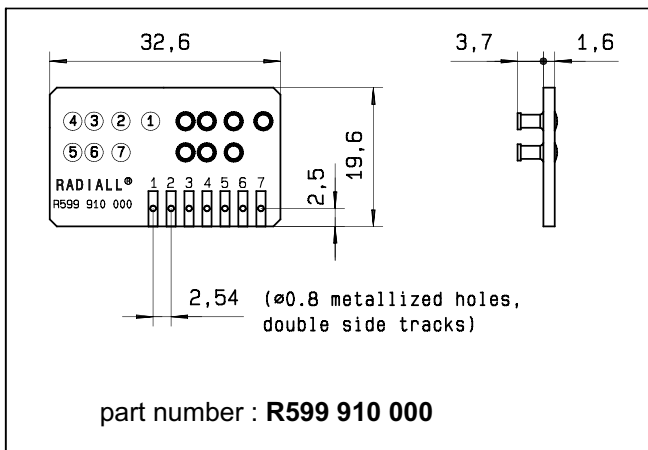
See page DPDT-19 for pin identification

Connectors	SMA	SMA 2.9	QMA	DIN 1.6/5.6
A max (mm)	7.4	6.3	10.8	11.5

ACCESSORIES

A printed circuit board interface connector has been designed for easy mounting on terminals :
It must be ordered separately.

For DPDT model R577 series :



Technical data sheets are available on : www.radiall.com

For more technical information, consult us / E-mail : USA : rfswitchusa@radiall.com / Rest of the word : switchingproducts@radiall.com