

### 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

DPDT



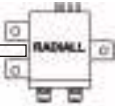
(4) : The "QLF" trademark (Quick Lock Formula®) standard applies to QMA and QN series and guaranties the full intermateability between suppliers using this trademark. Using QLF certified connectors also guarantees the specified level of RF performances

(5) : Connector SMA 2.9 is equivalent to "K connector", registered trade mark of Anritsu



Technical data sheets are available on : [www.radiall.com](http://www.radiall.com)

For more technical information, consult us / E-mail : **USA : [rfswitchusa@radiall.com](mailto:rfswitchusa@radiall.com) / Rest of the word : [switchingproducts@radiall.com](mailto: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	

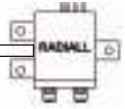
See page DPDT-10 for typical RF performances

### ADDITIONAL SPECIFICATIONS

Operating mode		Fail-safe		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		

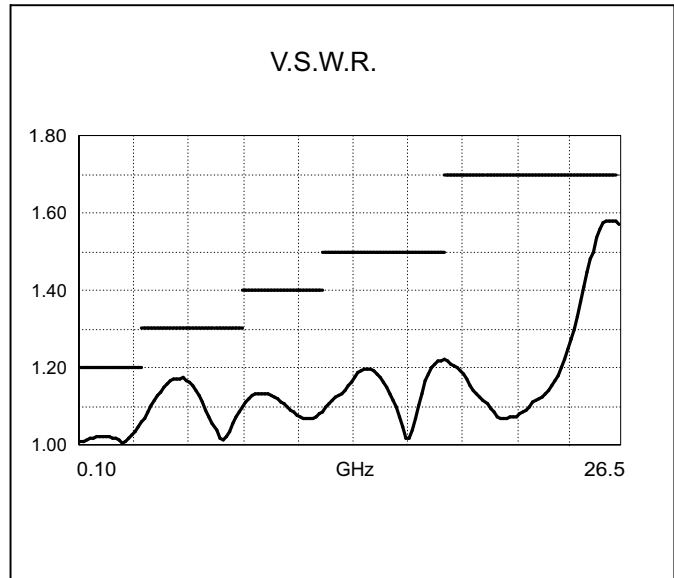
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For more technical information, consult us / E-mail : USA : [rfswitchusa@radiall.com](mailto:rfswitchusa@radiall.com) / Rest of the world : [switchingproducts@radiall.com](mailto:switchingproducts@radiall.com)

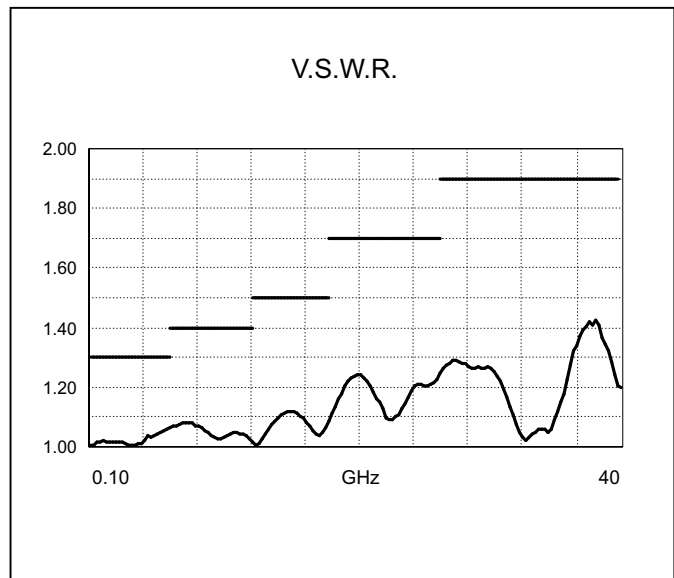
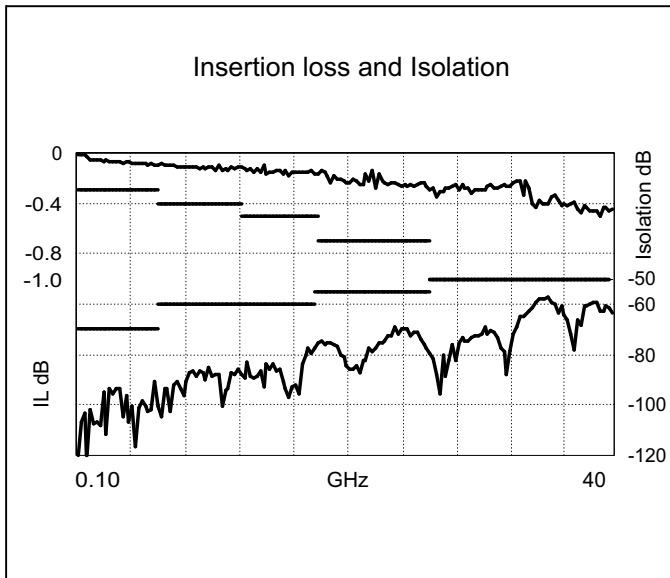


### R577 TYPICAL RF PERFORMANCES

Example : DPDT SMA up to 26.5 GHz

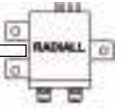


Example : DPDT SMA 2.9 up to 40 GHz



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### 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 :

part number : **R599 910 000**



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