DPDT up to 40 GHz - RAMSES Concept

SMA - SMA 2.9 - QMA - SMB - SMC - DIN 1.6 / 5.6

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

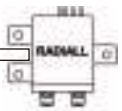


(4) : The "QLF" trademark (Quick Lock Formula®) standard applies to QMA and QN series and guaranties the full intermateability between suppliers using this trademark. Using QLF certified connectors also guarantees the specified level of RF performances

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

Technical data sheets are available on : ***www.radiall.com***
For more technical information, consult us / E-mail : ***USA : rfswitchusa@radiall.com / Rest of the word : switchingproducts@radiall.com***

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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			

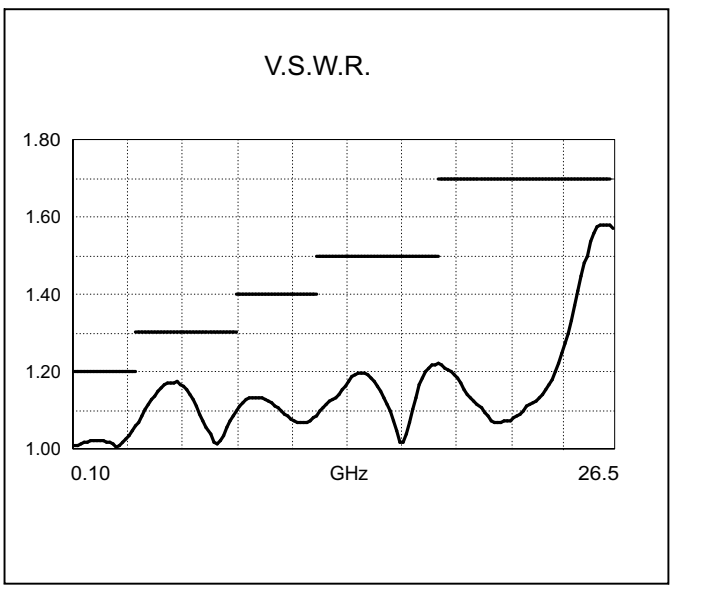
DPDT

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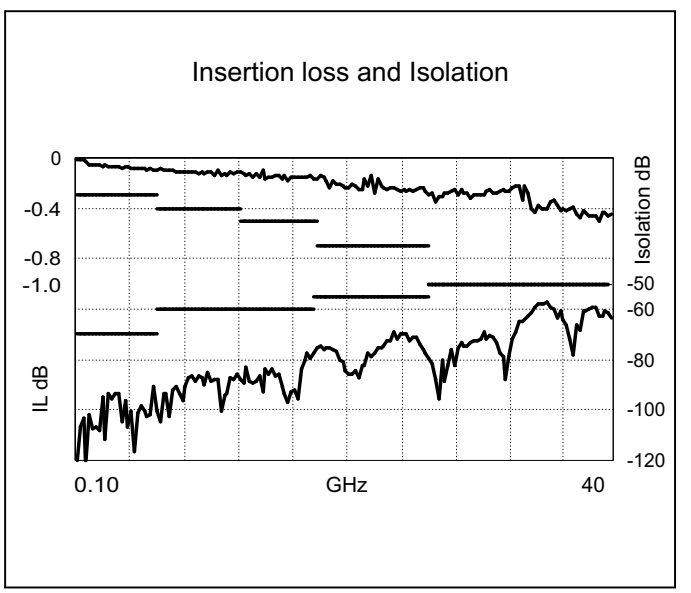
R577 TYPICAL RF PERFORMANCES

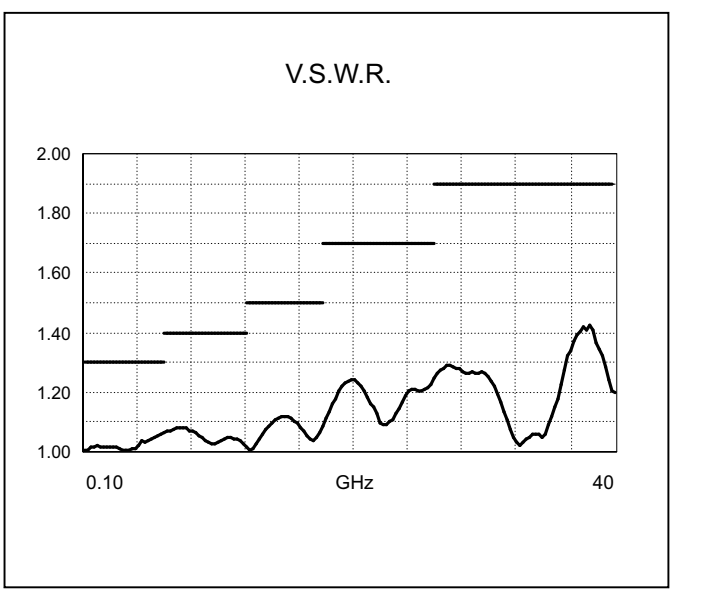
Example : DPDT SMA up to 26.5 GHz





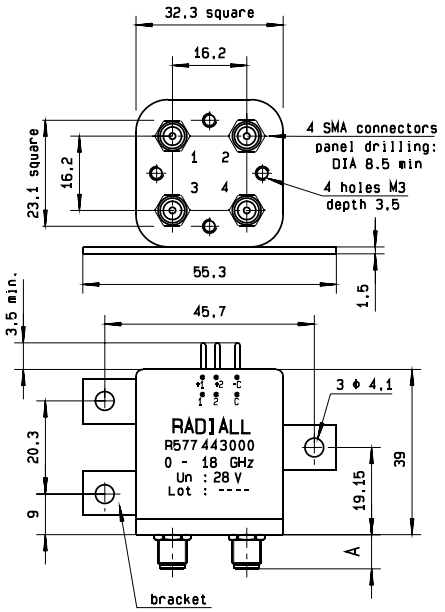
Example : DPDT SMA 2.9 up to 40 GHz





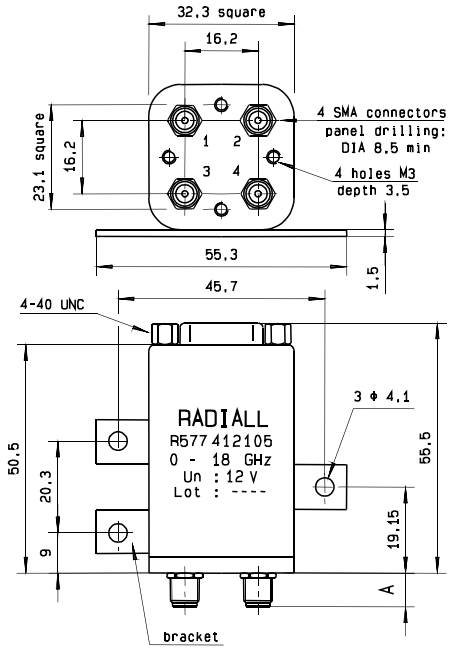
TYPICAL OUTLINE DRAWING

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

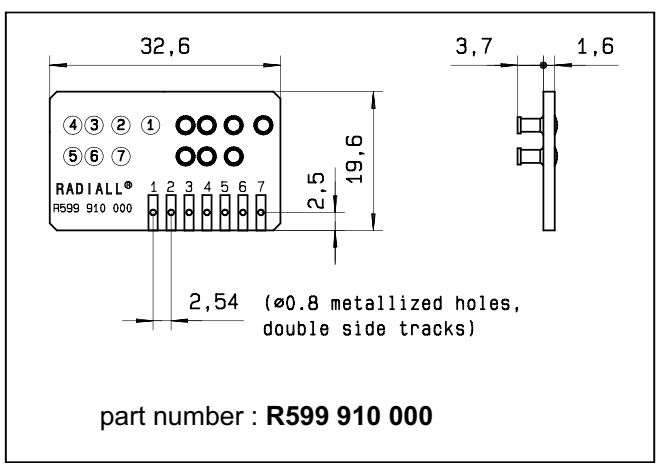
Connectors	SMA	SMA 2.9	QMA	DIN 1.6/5.6
A max (mm)	7.4	6.3	10.8	11.5

DPDT

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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Mouser Electronics

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R577913100 R577463000 R577F13100 R577312030 R577323030 R577343010 R577353000 R577423002
R577853000 R577F22005 R577342030 R577362100 R577913000 R577F23005 R577462000 R577943030
R577F43045 R577432000 R577313000 R577422100 R577443010 R577463100 R577832010 R577363015
R577833010 R577432017 R577343035 R577362102 R577452012 R577F22100 R577F33037 R577412007
R577433105 R577F63005 R577433102 R577F33040 R577F42030 R577432005 R577F63015 R577333040
R577443035 R577833040 R577F62005 R577F23105 R577F43105 R577453102 R577862105