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DPDT up to 40 GHz
SMA - SMA2.9 - QMA - SMB - SMC - DIN 1.6/5.6



Radiall's DPDT switches offer excellent reliability, high performance and operating frequencies from DC to 40 GHz. Radiall's RAMSES concept guarantees a life span of 2.5 million cycles and provides a full array of options to respond to the needs of our customers.

These relays are well suited to applications across all markets including: Defense, Instrumentation, and Telecom.

Example of P/N:
R577F63105 is a DPDT SMA 26.5 GHz latching with Indicators, Self Cut-Off, 28 Vdc, TTL driver, D-Sub connector.

PART NUMBER SELECTION

R 577 . . . . . .

RF Connectors:
3: SMA up to 3 GHz
E: QMA up to 6 GHz
4: SMA up to 18 GHz (4)
F: SMA up to 26.5 GHz
8: SMA2.9 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 tradermark (Quick Lock Formula®) standard applies to QMA and QN series and guaranties the full intermateability between suppliers using this tradermark. Using QLF certified connectors also guarantees the specified level of RF performances.
(5): Connector SMA2.9 is equivalent to "K connector®", registered trademark of Anritsu.

To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

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GENERAL SPECIFICATIONS

Operating mode			Failsafe		Latching	
Nominal operating voltage (across operating temperature)		Vdc	12 (10.2 / 13)	28 (24 / 30)	12 (10.2 / 13)	28 (24 / 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 1-16**			
TTL Input	High level		2.5 to 5.5 Volts		800µA max 5.5 Volts	
	Low level		0 to 0.8 Volts		20µA max 0.8 Volts	
Switching time (max)		ms	15			
Life (min)			2.5 million cycles			
Connectors			SMA - SMA2.9 - QMA - DIN 1.6/5.6			
Actuator terminals			Solder pins or male 9 pin D-Sub connector			
Operating temperature range	DIN 1.6/5.6		-25°C to +70°C			
	SMA - SMA2.9 - QMA		-40°C to +85°C			
Storage temperature range	DIN 1.6/5.6		-40°C to +85°C			
	SMA - SMA2.9 - QMA		-55°C to +85°C			
Vibration (MIL STD 202, Method 204D, cond.C)			10-2000 Hz, 10g			Operating
Shock (MIL STD 202, Method 213B, cond.G)			50g / 11ms, ½ sine			Operating

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	1.30	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	
SMA2.9	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	0.80	55	
		26.5 - 40	1.90	1.00	50	

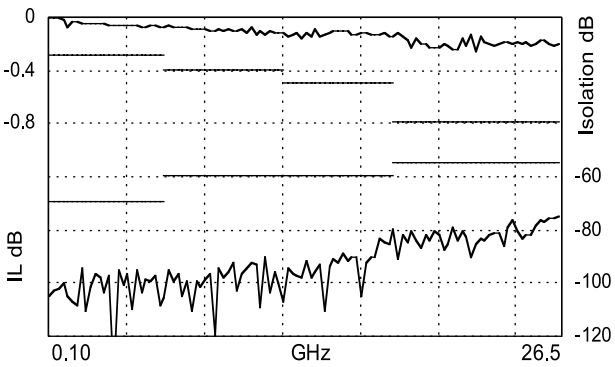
See page 4-4 for typical RF performances

To download technical data sheets, visit www.radiall.com & enter the part number in the Search box.
For more detailed technical information please consult Radiall customer support.

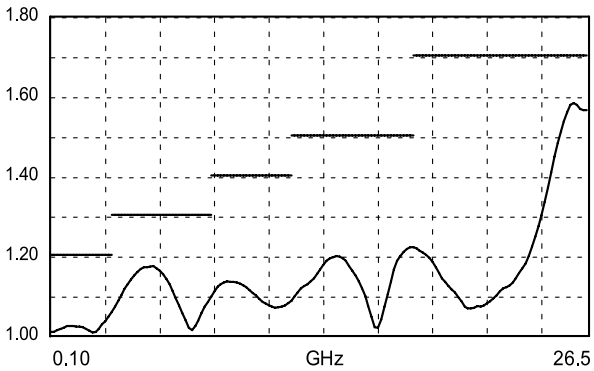
R577 TYPICAL RF PERFORMANCES

Example: DPDT SMA up to 26.5 GHz

Insertion Loss and Isolation

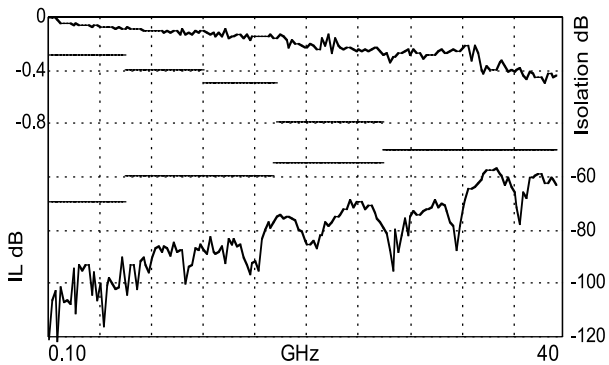


V.S.W.R.

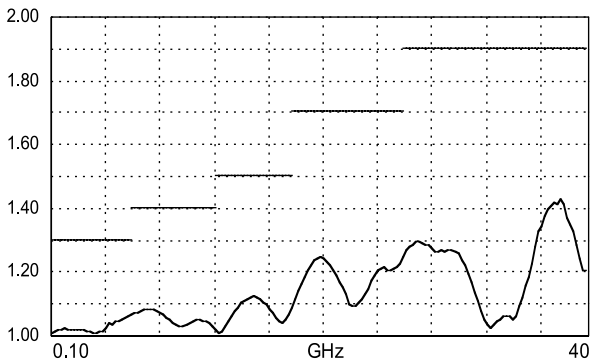


Example: DPDT SMA2.9 up to 40 GHz

Insertion Loss and Isolation



V.S.W.R.

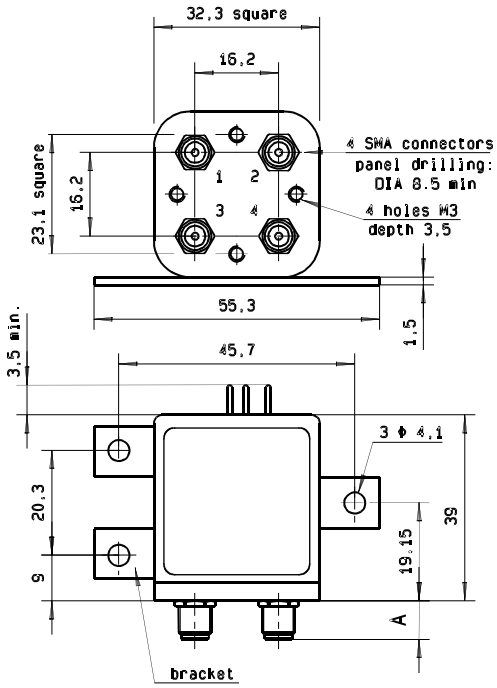


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SMA - SMA2.9 - QMA - SMB - SMC - DIN 1.6/5.6

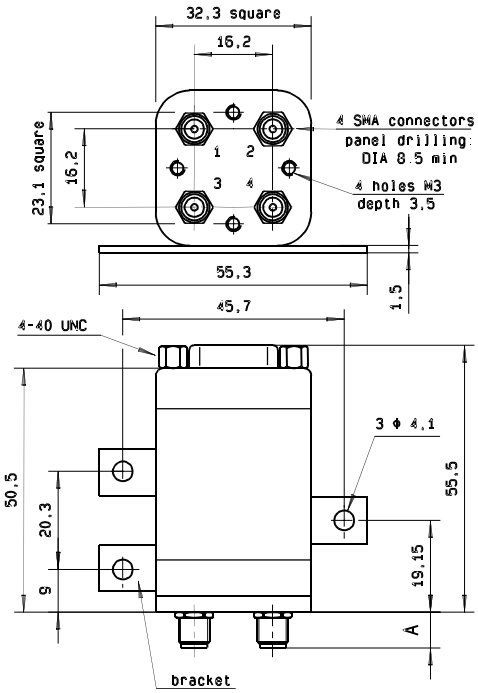
TYPICAL OUTLINE DRAWING

With solder pins and bracket



See page 4-13 for pin allocation

With D-Sub connector and bracket

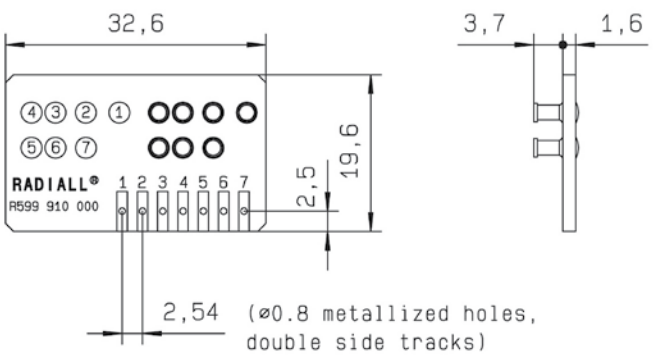


Connectors	SMA	SMA2.9	QMA	DIN 1.6/5.6
A max (mm)	7.4	6.3	10.8	11.5

ACCESSORIES

A printed circuit board interface connector (ordered separately) has been designed for easy mounting on terminals.

For DPDT model R577 series => Radiall part number: **R599 910 000**





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