



PART NUMBER SELECTION

Low consumption actuator & reduced size

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RF Connectors :

- 3 : SMA up to 3 GHz
- B : SMB up to 3 GHz
- C : SMC up to 3 GHz
- E : QMA up to 6 GHz (2)
- 4 : SMA up to 18 GHz
- F : SMA up to 26.5 GHz
- 8 : SMA 2.9 up to 40 GHz (3)
- 9 : DIN 1.6/5.6 up to 2.5 GHz

Options :

- 0 : Without option
- 1 : Positive common (1)

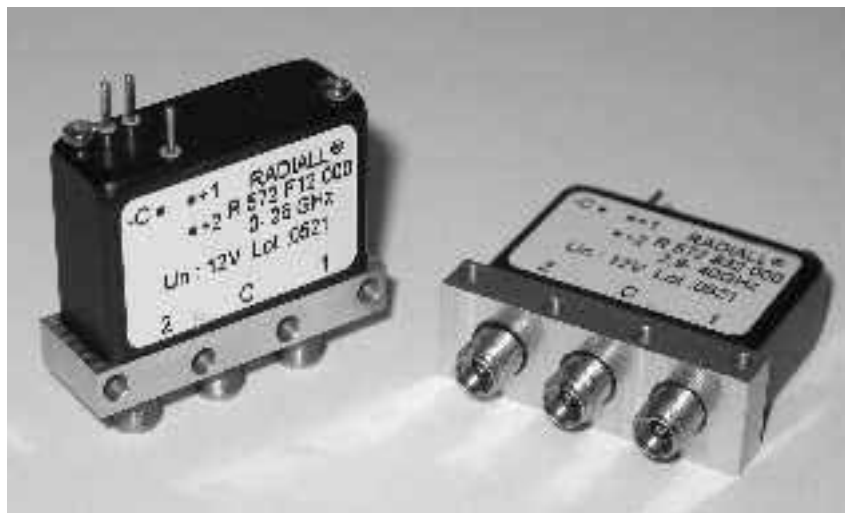
Actuator Voltage :

- 2 : 12 Vdc
- 3 : 28 Vdc

Type :

- 1 : Failsafe
- 3 : Latching

(1): Positive common shall be specified only with type 3 because failsafe switches can be used with both polarities



(2): 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

(3): 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 world : switchingproducts@radiall.com



RF PERFORMANCES

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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	
SMB - SMC	DC - 3	DC - 3	1.20	0.20	80	50
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	60	
		12.4 - 18	1.50	0.50	60	
		18 - 26.5	1.70	0.70	55	
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	0.80	50	

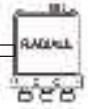
See page SPDT-16, SPDT-20 and SPDT-21 for typical RF performances

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	47.5	275	58	350
Nominal operating current at 23°C	mA	250	102	210	80
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	SMA - SMA 2.9 - QMA	-25 to +70 °C			
	DIN 1.6/5.6 - SMB - SMC	-40 to +85 °C			
Storage temperature range °C	SMA - SMA 2.9 - QMA	-40 to +85 °C			
	DIN 1.6/5.6 - SMB - SMC	-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		non operating	

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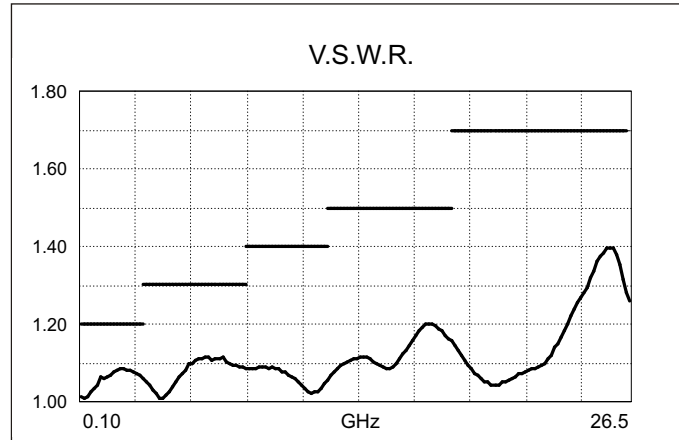
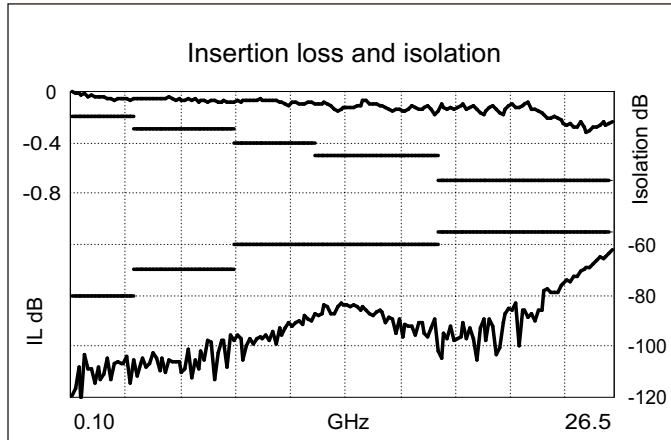
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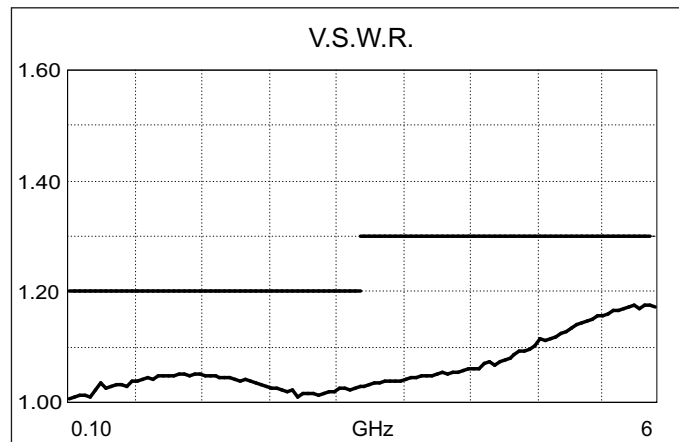
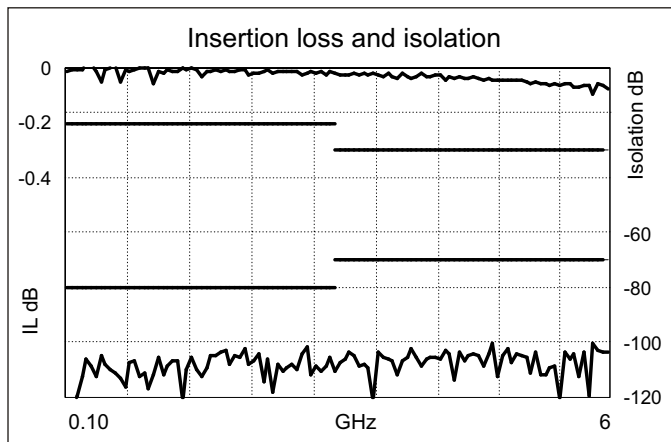
R570 AND R572 TYPICAL RF PERFORMANCES

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Example : SPDT SMA up to 26.5 GHz



Example : SPDT QMA up to 6 GHz



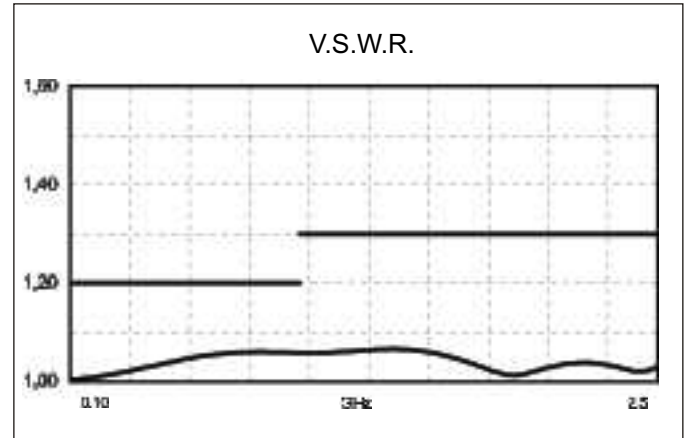
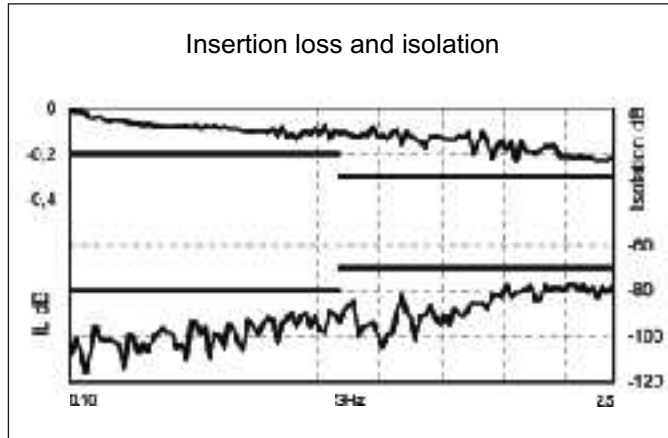
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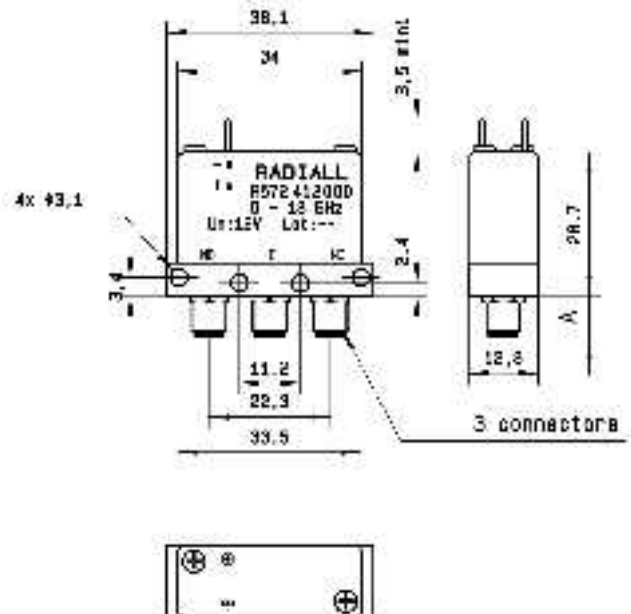
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Example : SPDT DIN 1.6/5.6 up to 2.5 GHz



TYPICAL OUTLINE DRAWING

Connectors	A max (mm)
SMA	7.4
SMA 2.9	6.3
SMB - SMC	9.3
QMA	10.8
DIN 1.6/5.6	11.5



See page **SPDT-29** for pin identification

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