

Coaxial Relay RU2-56G41-C-S1

MTS-No.: 28742

Description

The Coaxial Relay RU2-56G41-C-S1 consists of two SPDT relays in series.

This enables the possibility to open the relay in order to switch off the RF signal.

It was especially designed to work between DC and 6000 MHz.



Technical data:

1 RF-specifications:

1.1	Relay type	2x SPDT, 2x signal (switch off)		
1.2	Impedance	50 Ω		
1.3	Input power			
	@ cold switching	10 W max.		
	@ hot switching	1 W max.		
1.4	Frequency range	DC – 6000 MHz		
1.5	Life cycles	10 000 000		
1.6	VSWR in / out	min.	typ.	max.
	@ DC – 3000 MHz		1.1	1.2
	@ 3000 – 6000 MHz		1.4	2.0
1.7	Insertion loss			
	@ DC – 1000 MHz		0.2 dB	0.5 dB
	@ 1000 – 3000 MHz		0.4 dB	0.8 dB
	@ 3000 – 5500 MHz		0.7 dB	2.0 dB
	@ 5500 – 6000 MHz		2.0 dB	4.5 dB
1.8	Isolation between output ports			
	@ DC – 1000 MHz	65 dB	80 dB	
	@ 1000 – 3000 MHz	45 dB	60 dB	
	@ 3000 – 6000 MHz	25 dB	40 dB	
1.9	Isolation common port output relay open			
	@ DC – 1000 MHz	65 dB	80 dB	
	@ 1000 – 3000 MHz	45 dB	60 dB	
	@ 3000 – 6000 MHz	25 dB	40 dB	
1.10	Isolation common port both relays open			
	@ DC – 1000 MHz	80 dB	95 dB	
	@ 1000 – 3000 MHz	75 dB	90 dB	
	@ 3000 – 6000 MHz	37 dB	75 dB	
1.11	Switching speed	10 ms		

2 Connections:

2.1	RF-in- and outputs	3x SMA female
2.2	Voltage supply	12 V DC via Phoenix contact

3 General specifications:

3.1	Power supply	12 V DC ± 5 %
3.2	Power consumption	30 mA max. @ 12 V DC
3.3	Operating temperature	-40 °C - +70 °C
3.4	Reference temperature of specifications	+25 °C
3.5	Dimensions (without connections)	47 mm x 62.5 mm x 19 mm (LxWxH)
3.6	Case style	Milled aluminium enclosure
3.7	Colour	SurTec650 (Chrome alloy)
3.8	Weight	105 grams

4 Delivered parts:

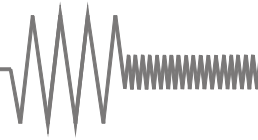
RU2-56G41-C-S1
Datasheet

5 Comments:

Warranty 12 months
RoHS-compliant Yes

6 Recommended accessories:

RF-cables
Attenuators series PAH



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Typical measurements:

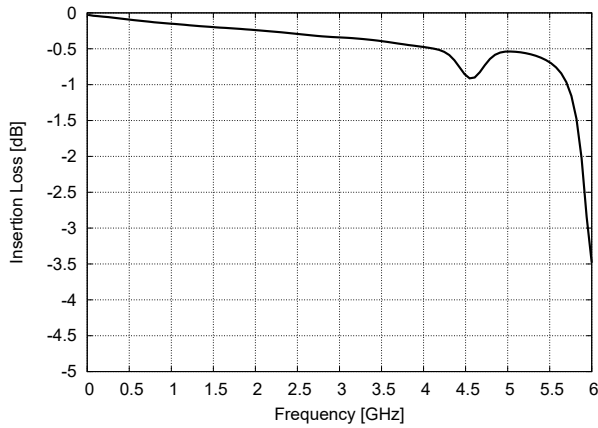


Fig. 1: Common port to output port insertion loss

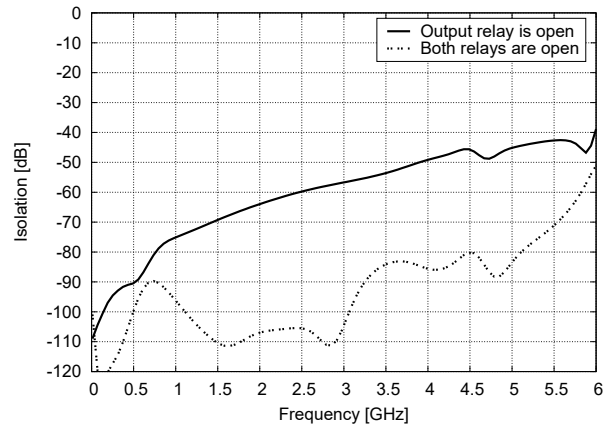


Fig. 2: Common port to output port isolation

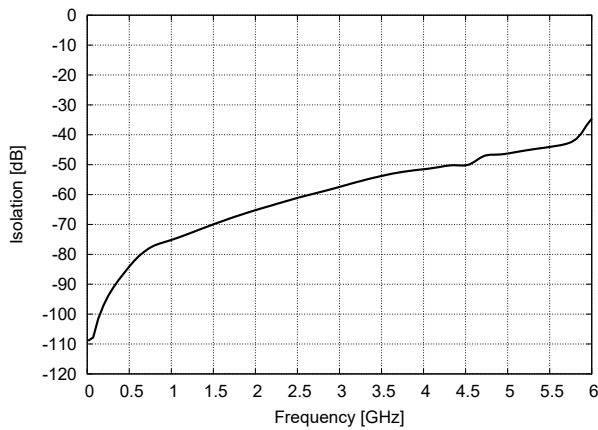


Fig. 3: Isolation between output ports (NC-NO)

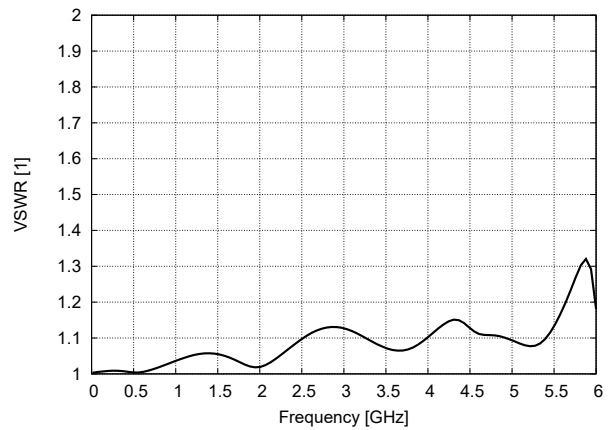
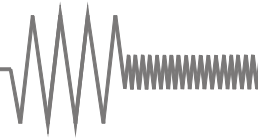


Fig. 4: VSWR at switched ports



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Views:

