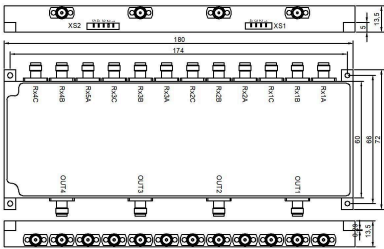


500–6000 MHz Four-Channel Reflective PIN SP3T Switch Module

The module integrates four independent PIN-diode SP3T switches over 500–6000 MHz. Isolation is 80 dB typical and switching time is 100 ns typical.



Electrical specifications

Parameter	Value	Unit	Notes
Frequency range	500–6000	MHz	Minimum: 500 MHz. Maximum: 6000 MHz.
Number of independent switches	4	-	-
Switch type	SP3T	-	-
Switch topology	Reflective	-	-
Switching technology	PIN	-	-
Maximum input power	30	dBm	Maximum: 30 dBm.
Insertion loss	≤2	dB	Maximum: 2 dB.
Isolation	80	dB	Typical: 80 dB.
Switching speed	100	ns	Typical: 100 ns.
Input/output VSWR	1.5	-	Typical: 1.5.
Supply voltage	+12	VDC	Typical: 12 VDC.
Supply current	150	mA	Typical: 150 mA.
Operating temperature	–40–+80	°C	Minimum: –40 °C. Maximum: 80 °C.
Storage temperature	–55–+125	°C	Minimum: –55 °C. Maximum: 125 °C.

Control interfaces

Parameter	Value	Unit	Notes
SPI data rate	2 / 10	Mbps	Typical: 2 Mbps. Maximum: 10 Mbps.
SPI unused data bits	8–15 — Source marks these bits as having no meaning.	-	-
SPI bit assignment — C41	7	-	-
SPI bit assignment — C40	6	-	-
SPI port selection — rx4-00	Rx4A	-	C41:C40=00
SPI port selection — rx4-01	Rx4B	-	C41:C40=01
SPI port selection — rx4-10	Rx4C	-	C41:C40=10

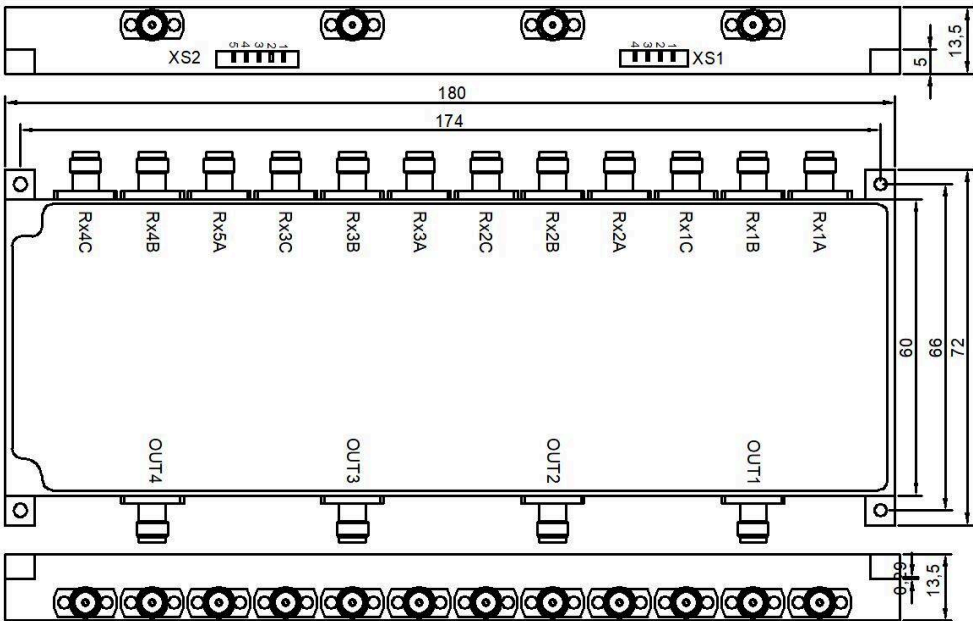
Control interfaces

Parameter	Value	Unit	Notes
SPI port selection — rx4-11	No meaning defined by the source	-	C41:C40=11
SPI bit assignment — C31	5	-	-
SPI bit assignment — C30	4	-	-
SPI port selection — rx3-00	Rx3A	-	C31:C30=00
SPI port selection — rx3-01	Rx3B	-	C31:C30=01
SPI port selection — rx3-10	Rx3C	-	C31:C30=10
SPI port selection — rx3-11	No meaning defined by the source	-	C31:C30=11
SPI bit assignment — C21	3	-	-
SPI bit assignment — C20	2	-	-
SPI port selection — rx2-00	Rx2A	-	C21:C20=00
SPI port selection — rx2-01	Rx2B	-	C21:C20=01
SPI port selection — rx2-10	Rx2C	-	C21:C20=10
SPI port selection — rx2-11	No meaning defined by the source	-	C21:C20=11
SPI bit assignment — C11	1	-	-
SPI port selection — rx1-00	Rx1A	-	C11:C10=00
SPI port selection — rx1-01	Rx1B	-	C11:C10=01
SPI port selection — rx1-10	Rx1C	-	C11:C10=10
SPI port selection — rx1-11	No meaning defined by the source	-	C11:C10=11

Mechanical specifications

Parameter	Value	Unit
Dimensions	180 × 72 × 13.5	mm
Weight	≤500 (Maximum: 500 g.)	g

Mechanical Outline



All dimensions are in mm [in].

Interfaces and contacts

Parameter	Value	Unit	Notes
RF inputs — rx1	SMA-K	-	Rx1A / Rx1B / Rx1C
RF output — RX1	SMA-K	-	OUT1
RF inputs — rx2	SMA-K	-	Rx2A / Rx2B / Rx2C
RF output — RX2	SMA-K	-	OUT2
RF inputs — rx3	SMA-K	-	Rx3A / Rx3B / Rx3C
RF output — RX3	SMA-K	-	OUT3
RF inputs — rx4	SMA-K	-	Rx4A / Rx4B / Rx4C
RF output — RX4	SMA-K	-	OUT4
Power contacts — 1-2	+12	VDC	XS1 / 1-2
Power contacts — 3-4	GND	-	XS1 / 3-4
SPI contact — 1	SPI_MOSI	-	XS2 / 1
SPI contact — 2	SPI_SCK	-	XS2 / 2
SPI contact — 3	SPI_NSS / LE	-	XS2 / 3

Interfaces and contacts

Parameter	Value	Unit	Notes
SPI contact — 4	GND	-	XS2 / 4
SPI contact — 5	NC	-	XS2 / 5
External connection line	External connection line provided with the module	-	-

Document notice

Specifications are subject to revision. Before design release, confirm the current document revision and product-specific requirements with LCRF. The approved quotation and order documentation define the supplied configuration.