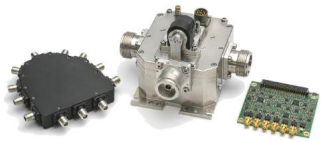
Product catalog

Switching, Routing & Control

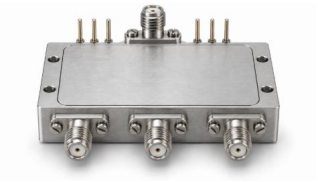
Define RF route topology, path loss, isolation, power by switch state, switching sequence, control interlocks, settling, lifetime, calibration and full-matrix acceptance before selecting switching hardware.



Products: 8

Revision: 1 · Revision date: 2026-11-08

PIN Diode Switches



LCSP3T-30-6000

30 MHz–6 GHz PIN Diode SP3T RF Switch Module

PIN diode SP3T module for RF path selection from 30 MHz to 6 GHz. Insertion loss is 3 dB typical and 3.5 dB maximum; isolation is 80 dB typical and switching time 200 ns typical.

Frequency range: Value: 30–6000; Unit: MHz

Insertion loss: Value: 3 /3.5; Unit: dB; Notes: Typical: 3 dB; Maximum: 3.5 dB

VSWR: Value: 2.0; Notes: Maximum: 2

Isolation: Value: 80; Unit: dB; Notes: Typical: 80 dB

Product details Product datasheet



LCSP3T-500-6000-4

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.

Frequency range: Value: 500–6000; Unit: MHz; Notes: Minimum: 500 MHz. Maximum: 6000 MHz.

Number of independent switches: Value: 4

Switch type: Value: SP3T

Switch topology: Value: Reflective

Product details Product datasheet

RF Switches



LCSPDT-400-6000

400–6000 MHz SPDT Switch Module with Two Bias Tees

The module combines three independent SPDT switches and two bias tees over 400–6000 MHz. Insertion loss is 2 dB typical, isolation 45 dB typical and switching time 200 ns typical.

Frequency range: Value: 400–6000; Unit: MHz; Notes: Minimum: 400 MHz. Maximum: 6000 MHz.

Number of independent switches: Value: 3

Switch type: Value: SPDT

Number of bias tees: Value: 2

Product details Product datasheet



LCSPDT-6000-9000

6–9 GHz SPDT Switch Module with Two Bias Tees

Three independent SPDT switches and two bias tees operate across 6–9 GHz. Insertion loss is 2.5 dB typical, isolation 40 dB typical and switching time 200 ns typical.

Frequency range: Value: 6000–9000; Unit: MHz; Notes: Minimum: 6000 MHz. Maximum: 9000 MHz.

Number of independent switches: Value: 3

Switch type: Value: SPDT

Number of bias tees: Value: 2

Product details Product datasheet



LCSPST-2000-18000-10

2–18 GHz Reflective SPST RF Switch, 10 W CW

Broadband reflective SPST switch with ≤2.3 dB insertion loss, ≥30 dB isolation and a maximum CW input rating of 10 W.

Operating frequency: Value: 2–18; Unit: GHz

Switch configuration: Value: SPST (Reflective)

Insertion loss: Value: ≤2.3; Unit: dB

VSWR: Value: ≤2.0:1

Product details Product datasheet

Electromechanical Switches



LCSPDT-DC12400-N

DC–12.4 GHz Failsafe Electromechanical SPDT RF Switch

This configuration specifies failsafe operation, with 350 W CW handling over DC–5 GHz and 250 W over 5–12.4 GHz. Switching time is ≤15 ms.

Model number: Value: LCSPDT-DC12400-N

Switch type: Value: SPDT

Frequency range: Value: DC–12.4 (Minimum: 0 GHz. Maximum: 12.4 GHz.); Unit: GHz

Drive mode: Value: Failsafe

Product details Product datasheet



LCSPDT-DC12400-N-H

DC–12.4 GHz Electromechanical SPDT RF Switch, Failsafe/Latching Options

CW power handling is 350 W over DC–5 GHz and 250 W over 5–12.4 GHz. Failsafe or latching options use break-before-make switching with a ≤15 ms switching time.

Model number: Value: LCSPDT-DC12400-N-H

Switch type: Value: SPDT

Frequency range: Value: DC–12.4 (Minimum: 0 GHz. Maximum: 12.4 GHz.); Unit: GHz

Drive mode: Value: Failsafe / latching options

Product details Product datasheet



LCSPDT-DC4000-L29

DC–4 GHz Electromechanical SPDT RF Switch, L29-K Interfaces

CW power handling is 3000 W over DC–1 GHz and 2500 W over 1–4 GHz. Drive mode is failsafe and switching time is ≤15 ms.

Model number: Value: LCSPDT-DC4000-L29

Switch type: Value: SPDT

Frequency range: Value: DC–4 (Minimum: 0 GHz. Maximum: 4 GHz.); Unit: GHz

Drive mode: Value: Failsafe

Product details Product datasheet

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.