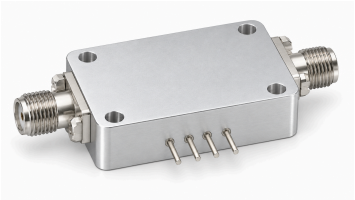
2–18 GHz Reflective SPST RF Switch, 10 W CW

LCSPST-2000-18000-10 switches RF paths across 2–18 GHz using a reflective single-pole single-throw topology. Insertion loss is ≤2.3 dB, isolation ≥30 dB, VSWR ≤2.0:1 and switching speed ≤500 ns.



Ports J0 and J1 use SMA female connectors with 50 Ω characteristic impedance. Control is standard TTL. The positive supply is +5 V at 150 mA; the separate negative supply is −28 V at 50 mA. Maximum input is 10 W CW. Operating and storage temperatures are both −55–+85 °C.

RF switch specifications

Parameter	Value	Unit
Operating frequency	2–18	GHz
Switch configuration	SPST (Reflective)	-
Insertion loss	≤2.3	dB
VSWR	≤2.0:1	-
Isolation	≥30	dB
Characteristic impedance	50	Ω
Maximum input power	10 (CW)	W
Switching speed	≤500	ns
Control logic	Standard TTL logic	-

Dual-rail supply and control

Parameter	Value
Positive supply	+5 V / 150 mA
Negative supply	−28 V / 50 mA
Control interface	Standard TTL logic

Environmental specifications

Parameter	Value	Unit
Operating temperature	−55–+85	°C
Storage temperature	−55–+85	°C

RF interfaces

Interface	Specification
RF port J0	SMA, female (RF port)
RF port J1	SMA, female (RF port)

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.