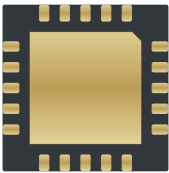


100–20000 MHz RF Switch IC — SP4T; TTL

100–20000 MHz; SP4T; Insertion loss -2.6 dB (typical); Isolation -50 dB (typical).



RF characteristics · TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Operating frequency	f	100	-	20000	100–20000	MHz
Insertion loss	IL	-	-2.6	-	-	dB
Isolation	ISO	-	-50	-	-	dB
Input VSWR	-	-	1.3	-	-	-
Output VSWR (on)	-	-	1.3	-	-	-
Output VSWR (off)	-	-	1.3	-	-	-

DC bias and current · TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Negative supply voltage	-	-	-	-	-5	V
Negative-supply quiescent current	-	-	0.0018	-	-	A
Input drive current	-	-	0.0003	-	VIH = 5 V; TTL	A
High-level input voltage	-	3	-	5	-	V
Low-level input voltage	-	0	-	0.4	-	V

Absolute limits · Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum input power	-	-	-	27	dBm
Storage temperature	-	-65	-	150	°C
Operating temperature	-	-55	-	85	°C
Minimum negative supply voltage	-	-6	-	-	V
Maximum control voltage	-	-	-	6	V

Package outline dimensions

Parameter	Value	Unit
Package outline dimensions	4 × 4 × 0.75	mm

Current publication record · 1.1 · 2026-10-23. Specification tables updated. Replaces revision 1.0.

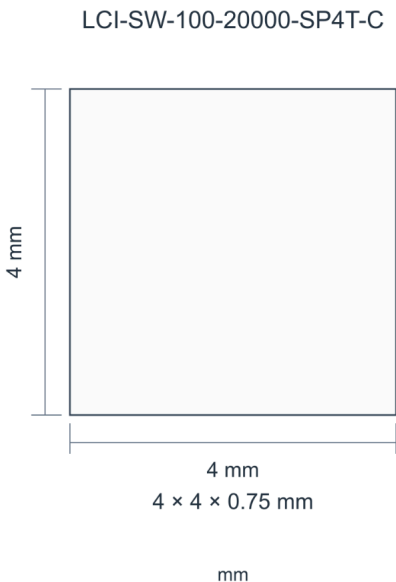
Integration notes

QFN20 4 × 4 mm The RF ports require external DC-blocking capacitors. VE = -5 V; VA = 0 V; VB = 0 V: RFin ↔ RFout1 VE = -5 V; VA = 3.3 V; VB = 0 V: RFin ↔ RFout2 VE = -5 V; VA = 0 V; VB = 3.3 V: RFin ↔ RFout3 VE = -5 V; VA = 3.3 V; VB = 3.3 V: RFin ↔ RFout4 T_peak ≤ 260 °C RFin: 3 RFout1: 20 RFout2: 17 RFout3: 9 RFout4: 6 VE: 11, 15 VA: 14 VB: 12 NC: 13 GND: 1, 2, 4, 5, 7, 8, 10, 16, 18, 19

Mechanical reference scope

Partial guide in mm showing only source-proven dimensions. Not a complete installation drawing.

Mechanical Outline



All dimensions are in mm [in].

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.