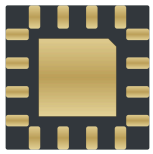
100–20000 MHz RF Switch IC — SPST; TTL

LCI-SW-100-20000-SPST-C · 100–20000 MHz · RF Switch IC.

The RF table specifies: SPST; Insertion loss -1.8 dB (typical); Isolation 60 dB (typical). RF test conditions: TA = +25 °C.

QFN16 2.5 × 2.5 mm



The RF ports require external DC-blocking capacitors.

T_peak ≤ 260 °C

RF: 2, 11

VEE: 5, 7

C: 6

GND: 1, 3, 10, 12

NC: 4, 8, 9, 13, 14, 15, 16

Package outline dimensions: 2.5 × 2.5 × 0.75 mm.

RF characteristics TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	f	100	-	20000	MHz
Insertion loss	IL	-	-1.8	-	dB
Isolation	ISO	-	60	-	dB
Input/output VSWR (on)	-	-	1.14	-	-
Input/output VSWR (off)	-	-	1.4	-	-

DC bias and current TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Negative supply voltage	-	-5.3	-5	-4.7	V
Negative-supply quiescent current	-	-	0.003	-	A
Input drive current [1]	-	-	0.0002	-	A
High-level input voltage	-	4	-	5	V
Low-level input voltage	-	0	-	0.4	V

[1] VIH = 5 V; TTL

Package outline dimensions

Parameter	Value	Unit
Package outline dimensions	2.5 × 2.5 × 0.75	mm

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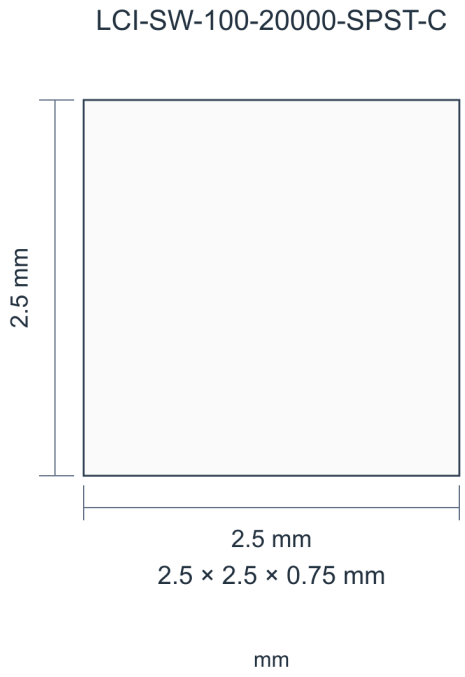
Integration notes

QFN16 2.5 × 2.5 mm The RF ports require external DC-blocking capacitors. T_peak ≤ 260 °C RF: 2, 11 VEE: 5, 7 C: 6 GND: 1, 3, 10, 12 NC: 4, 8, 9, 13, 14, 15, 16

Mechanical Outline

Reference drawing showing selected dimensions in mm. Use the complete installation drawing for mounting.



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.