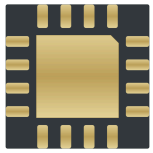
500–2000 MHz Packaged Passive Double-Balanced Mixer — LO +14 dBm; IL -9 dB (typical)

LCI-MIX-500-2000-C · 500–2000 MHz · Packaged Passive Double-Balanced Mixer.



The RF table specifies: IF DC–900 MHz; Conversion loss -9 dB (typical); LOin = 14 dBm. RF test conditions: TA = +25 °C; LOin = 14 dBm; RFin = -10 dBm.

QFN16 4 × 4 mm

The LO and RF ports include DC-blocking capacitors; the IF port does not.

T_peak ≤ 260 °C

LOin: 2

RF: 11

IF: 7

GND: 1, 3, 6, 8, 10, 12

NC: 4, 5, 9, 13, 14, 15, 16

Package outline dimensions: 4 × 4 × 0.75 mm.

RF characteristics

TA = +25 °C; LOin = 14 dBm; RFin = -10 dBm

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Operating frequency	f	500	-	2000	MHz
IF frequency range	-	DC	-	900	MHz
Conversion loss	IL	-	-9	-	dB
LO–RF isolation	ISOL-R	-	-40	-	dB
LO–IF isolation	ISOL-I	-	-35	-	dB
RF–IF isolation	ISOR-I	-	-15	-	dB

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Maximum RF input power	-	-	-	22	dBm
Maximum LO input power	-	-	-	22	dBm
Storage temperature	-	-65	-	150	°C
Operating temperature	-	-55	-	85	°C

Package outline dimensions

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

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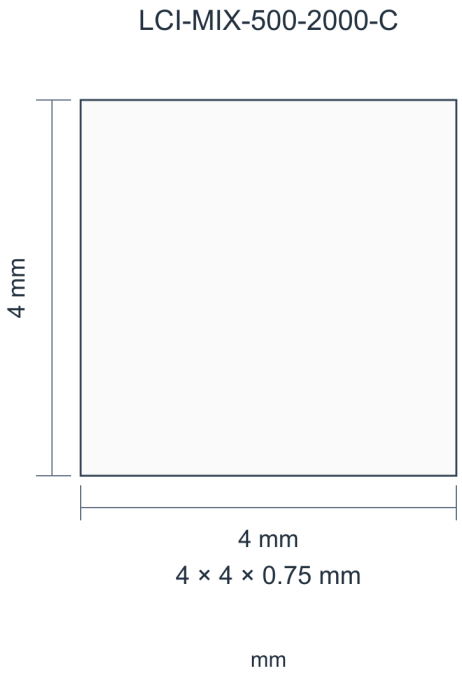
Integration notes

QFN16 4 × 4 mm The LO and RF ports include DC-blocking capacitors; the IF port does not. T_peak ≤ 260 °C LOin: 2 RF: 11 IF: 7 GND: 1, 3, 6, 8, 10, 12 NC: 4, 5, 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.