17000–19000 MHz GaAs Bandpass Filter Die — IL 2.7 dB (typical)

LCBPF-17000-19000 · 17000–19000 MHz · GaAs Bandpass Filter Die.

The RF table specifies: Insertion loss 2.7 dB (typical). RF test conditions: TA = +25 °C.

Die dimensions: 1.8 × 1.2 × 0.1 mm.



RF characteristics

TA = +25 °C

Parameter	Symbol	Minimum	Typical	Maximum	Value	Unit
Operating frequency	f	17000	-	19000	-	MHz
Center frequency	-	-	18000	-	-	MHz
Insertion loss	-	-	2.7	-	-	dB
Passband ripple	-	-	0.5	-	-	dB
Input/output VSWR	-	-	1.2	-	-	-
Lower stopband rejection	-	-	40	-	f = DC–12000 MHz	dBc
Upper stopband rejection	-	-	40	-	f = 27000–32000 MHz	dBc

Absolute limits

Absolute limits; these are not normal operating targets.

Parameter	Symbol	Minimum	Typical	Maximum	Unit
Storage temperature	-	-65	-	150	°C
Operating temperature	-	-55	-	125	°C

Die dimensions

Parameter	Value	Unit
Die dimensions	1.8 × 1.2 × 0.1	mm

Bond-pad assignments

Pins	Symbol	Function	Size (mm)
1	GND	Ground	0.100 × 0.100
2	RFin	RF input	0.150 × 0.100
3	GND	Ground	0.100 × 0.100
4	GND	Ground	0.100 × 0.100

Bond-pad assignments

Pins	Symbol	Function	Size (mm)
5	RFout	RF output	0.150 × 0.100
6	GND	Ground	0.100 × 0.100

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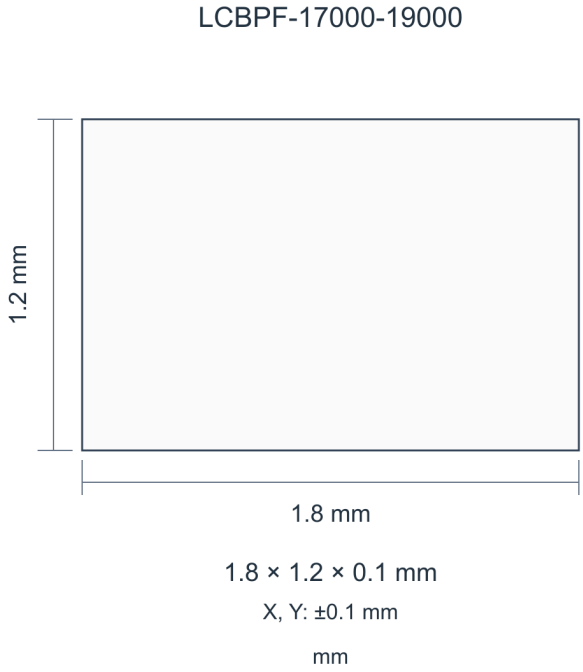
Mechanical Outline

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

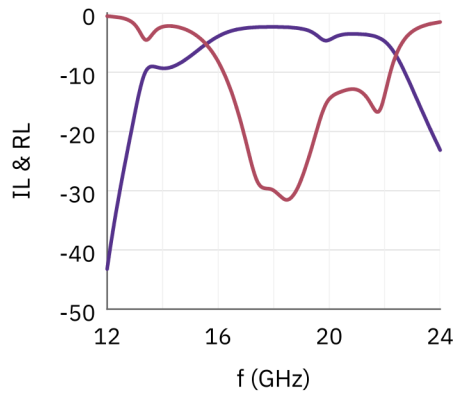


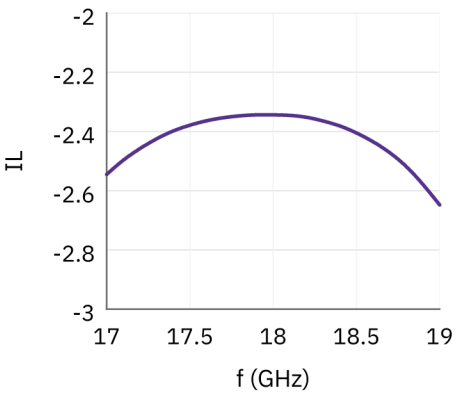
Performance curves

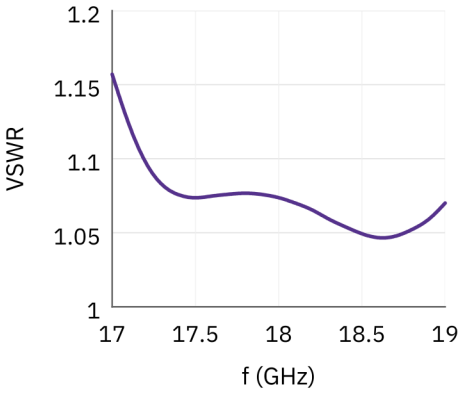
Read each figure with its stated operating conditions.

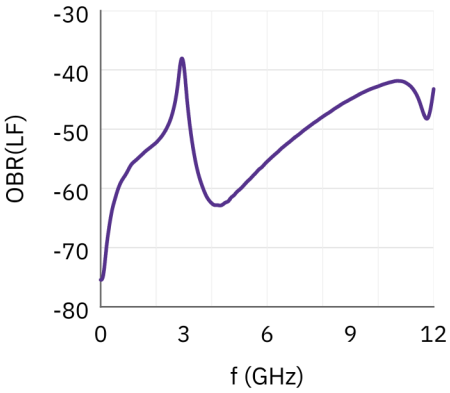
Out-of-band rejection; Insertion loss; Input/output matching.

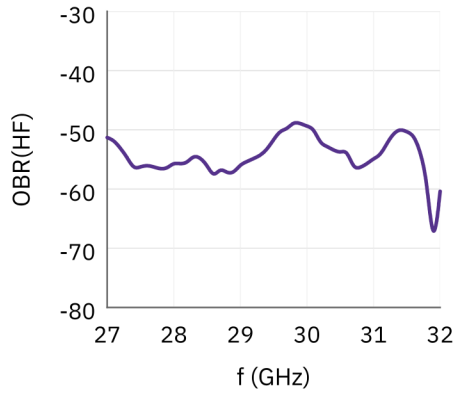
Readings are approximate. The IL/RL plot does not assign its two traces by legend. The IL/RL, IL and OBR axes have no specified units.











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.