

HT-LFCN-80+

- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

- Harmonic rejection.
- VHF/UHF transmitters/receivers.
- Lab use.

RF IN	1
RF OUT	3
GROUND	2,4

PCB Land Pattern

Labels and Dimensions:

- ϕN : Diameter of the hole.
- PLATED THRU HOLE ON GROUND PAD: Text indicating the nature of the hole.
- J TYP: Dimension for the distance from the hole center to the edge of the pad.
- P TYP MAX: Dimension for the maximum thickness of the pad.
- L: Dimension for the length of the pad.
- M: Dimension for the width of the pad.
- K: Dimension for the distance from the hole center to the edge of the pad.
- H: Dimension for the distance from the hole center to the edge of the pad.
- G: Dimension for the distance from the hole center to the edge of the pad.

Outline Dimensions : inch
mm

The diagram shows a two-port network. The input port is labeled 'RF IN' and the output port is labeled 'RF OUT'. The network consists of two inductors in series, connected by a dashed line. Each inductor is connected to a common ground plane through a capacitor. The ground plane is represented by a series of horizontal lines of decreasing width, indicating a ground connection.

50 Ω
DC to 80MHz

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Units
Passband	Freq. Cut-Off	145	—	3.0	—	dB
	Insertion Loss	DC-80	—	—	1.0	dB
	VSWR	DC-80	—	1.2	—	: 1
Stop Band	Rejection Loss	200	20	—	—	dB
		225-1550	—	40	—	
		4500	—	20	—	
	VSWR	200-4500	—	20	—	: 1

Frequency (MHz)	Insertion Loss (dB)
0	0
200	42
800	45
1500	42
2500	35
3000	32
4000	28
5000	25

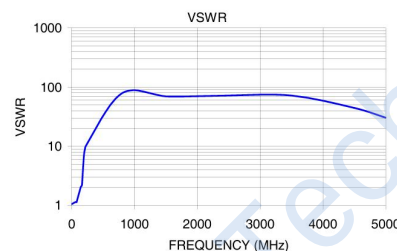


Figure 1: Dimensions of the Waveguide. The diagram shows a cross-section of a waveguide assembly with the following dimensions and labels:

- .098 (Central gap)
- .072 TYP (Top gap)
- .021 TYP (Top gap)
- .028 TYP (Top gap)
- .024 TYP (Top gap)
- .015 PTH, 8 PL. (Top gap)
- .038 TRACE WIDTH, & .013 GAP, 2 PL. (SEE NOTE BELOW) (Top gap)
- .019, 2 PL. (Top gap)
- .021 TYP (Top gap)
- PIN 1 (Label pointing to the left cutout)
- DUT PACKAGE OUTLINE (Label pointing to the right cutout)

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

 DENOTES PCB COPPER LAYOUT WITH SMOBC
(SOLDER MASK OVER BARE COPPER)

 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	8.5W at 25°C

*Permanent damage may occur if any of these limits are exceeded.