



LARK
ENGINEERING

SECURE TECHNOLOGY

a Benchmark company



FH Series



High Frequency filters in a Small Package

These filters are ideal for ultra-high frequency applications demanding extremely small surface mount packages.

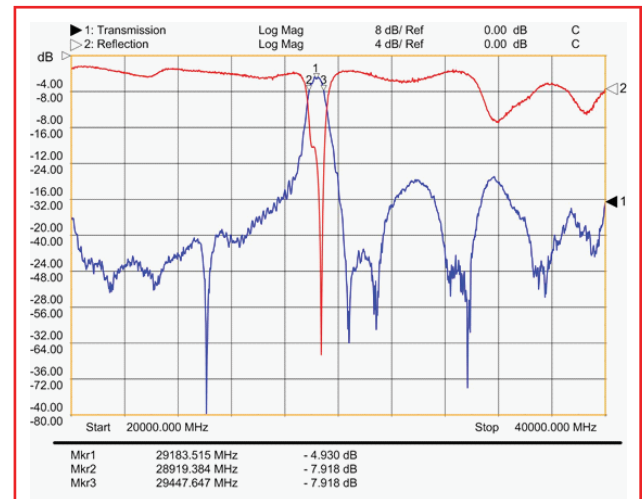
Specifications:

- Type of connectors: SMT
- Frequency range: 5 to 30 GHz
- Impedance: 50 Ohms
- Number of sections: 3 to 5
- % Bandwidth: 2% to 5%
- Return loss: 10 dB (min)
- Insertion loss: will depend on the number of sections, configuration, and type of substrate
- Dimensions: The height is standard for all models (less than 0.040"). The width and length will depend on the number of sections, configuration, and type of substrate

Key Features:

- Designed combining two existing technologies such as planar substrates and cavities
- Can be easily interconnected with other printed circuit boards such as Micro-strip, CPW, Strip line, etc.
- Smaller size if compared with conventional waveguide filters
- Ideal for **5G next generation wireless networks**

Filter response



Above plot shows an example of our capabilities. This is a 3 poles SMT filter, centered at 29.184 GHz, BW 528 MHz (1.8 %), and return loss greater than 10 dB. Size (LxWxH): 1"x 0.250"x 0.040"

We are continuously improving the performance of our filters. Please feel free to contact our Engineering Department for more information.

About Lark Engineering

Lark is a leading (OEM) supplier of RF and Microwave Filters Multiplexers and Multifunction Assemblies for the Military, Aerospace and Commercial markets. The company began operations in 1986 with the goal to design and manufacture quality products that satisfy the customer's needs and requirements. Our products can be found in today's military radar systems, aircraft, shipboard, hand held radios, GPS, ISM, PCN and many other military and commercial applications. Our commitment to quality and customer service has been a cornerstone of the company since its inception.