

## ATC 0805 BPF Series LGA Thin Film Bandpass Filters

### Features

- Low Profile LGA / SMT EIA Package
- Frequency Range: 1220 to 4520 MHz
- Characteristic Impedance: 50Ω
- Low Passband Insertion Loss
- Operating Temperature: -40°C to +85°C
- Pb Free / RoHS Compliant

ATC's 0805 BPF Series Thin Film SMT Bandpass Filters offer superb performance in a low profile, LGA style 0805 EIA package. The BPF Series is offered in a variety of selected passband frequencies making them well suited for most wireless frequency applications. Their superb performance provides an excellent solution for the most critical filter applications. The BPF Series exhibits excellent passband insertion loss, stop-band rejection, flatness and matching characteristics. This filter Series is fully tested to meet or exceed electrical, environmental and mechanical specifications. They are supplied in tape and reel, making them fully compatible with high speed automated pick-and-place manufacturing.



### Applications:

- Wireless communications
- WLAN's (802.11)
- 4G LTE and 5G-NR
- Industrial , Scientific and Medical (ISM)
- Global Navigation Satellite Systems (GNSS)

### BPF Filter Configurations:

Part Number	Passband (MHz)
BPF08051308LTT	1220 to 1420
BPF08051457LTT	1447 to 1467
BPF08051795LTT	1785 to 1805
BPF08052160LTT	1960 to 2360
BPF08054320LTT	4120 to 4520

# ATC 0805 BPF SERIES THIN FILM BANDPASS FILTER

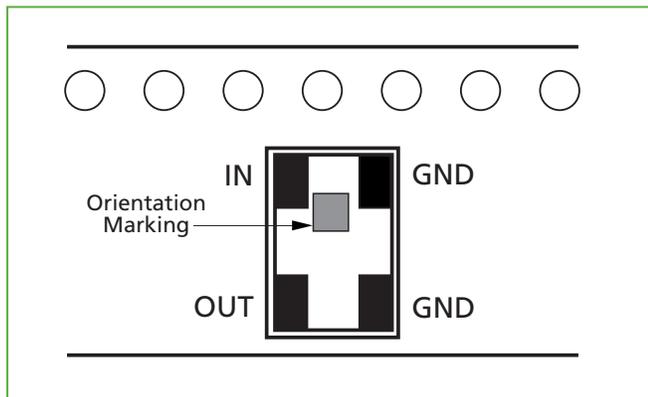
## Dimensions

Size (EIA)	Length (L)	Width (W)	Thickness (T)
0805	0.080 ±0.004 (2.03 ±0.1)	0.061 ±0.004 (1.55 ±0.1)	0.032 ±0.004 (0.80 ±0.1)

A	B
0.022 ±0.010 (0.56 ±0.25)	0.014 ±0.006 (0.35 ±0.15)

inches (mm)

## Top View



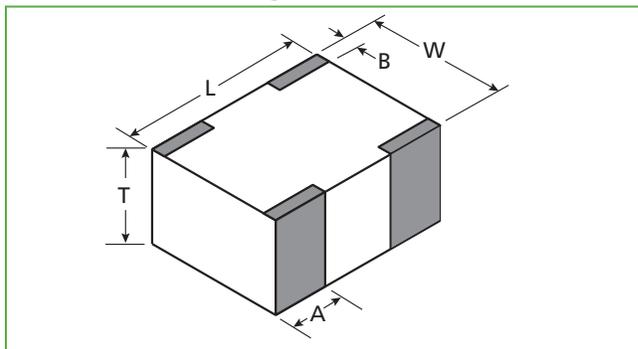
## Dimensions

F	G	J	K	M
0.10 ± 0.002 (2.5 ± 0.05)	0.06 ± 0.002 (1.5 ± 0.05)	0.007 ± 0.002 (0.19 ± 0.05)	0.14 ± 0.002 (3.48 ± 0.05)	0.02 ± 0.01 (0.54 ± 0.25)

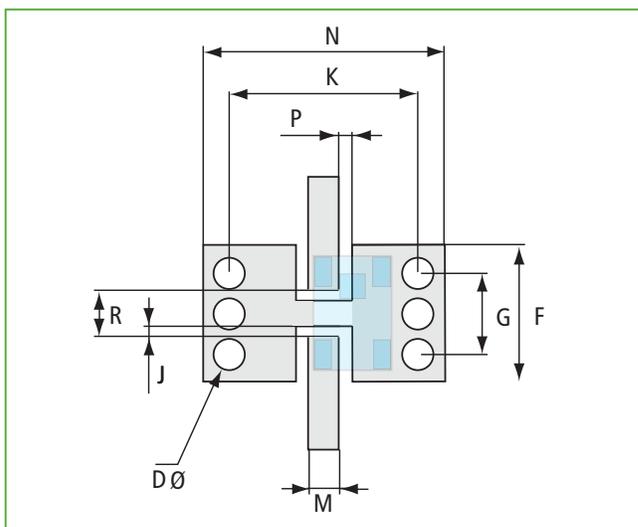
N	P	R	D
0.10 ± 0.002 (2.5 ± 0.05)	0.01 ± 0.002 (0.25 ± 0.05)	0.03 ± 0.002 (0.85 ± 0.05)	0.02 ± 0.002 (0.6 ± 0.05)

inches (mm)

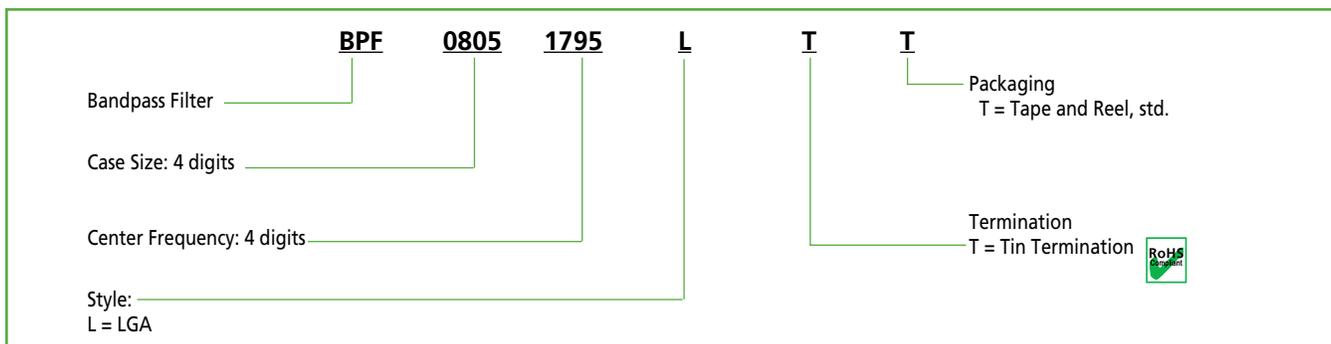
## Mechanical Configurations



## Recommended Pad Layout



## ATC Part Number Code



The above part number refers to a Bandpass Filter, (EIA case size 0805), Passband 1785 to 1805 MHz, Land Grid Array (LGA) Style, Tin Termination

ATC accepts orders for our parts using designations *with* or *without* the "ATC" prefix. Both methods of defining the part number are equivalent, i.e., part numbers referenced with the "ATC" prefix are interchangeable to parts referenced without the "ATC" prefix. Customers are free to use either in specifying or procuring parts from American Technical Ceramics.

For additional information and catalogs contact your ATC representative or call direct at +1-631-622-4700.  
Consult factory for additional performance data.

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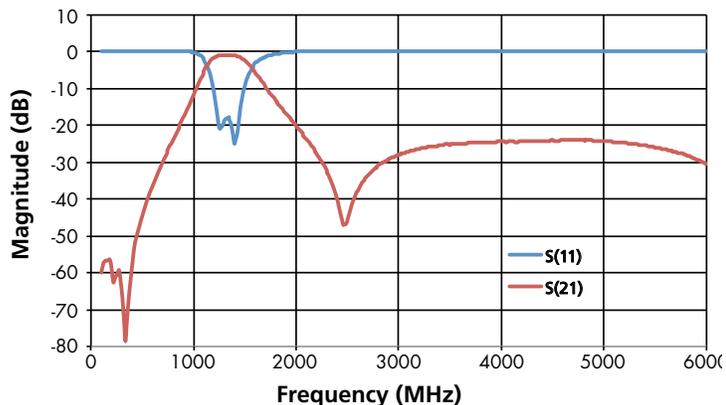
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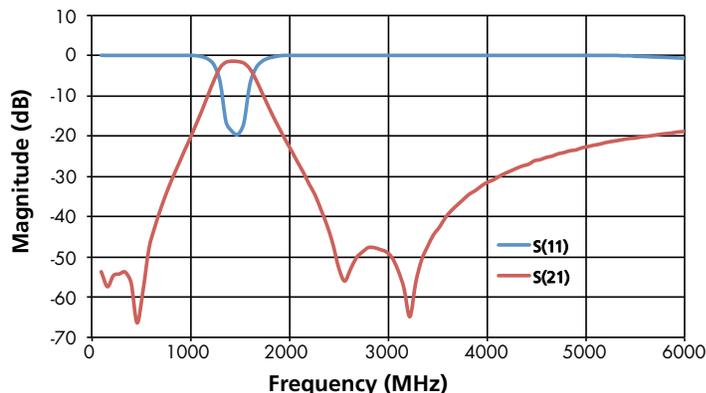


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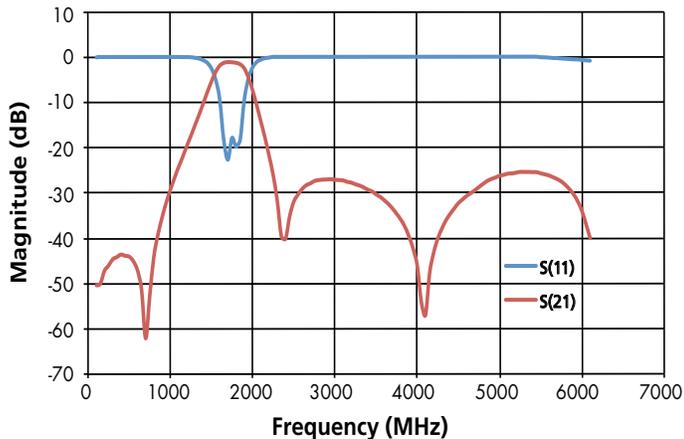
**ATC BPF08051308LTT**  
Passband 1220 to 1420 MHz



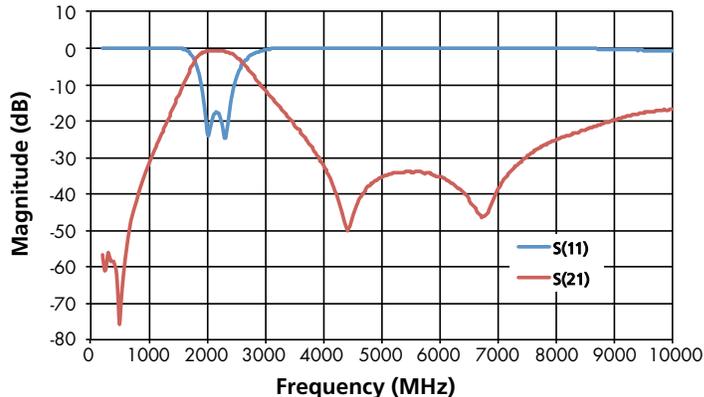
**ATC BPF08051475LTT**  
Passband 1447 to 1467 MHz



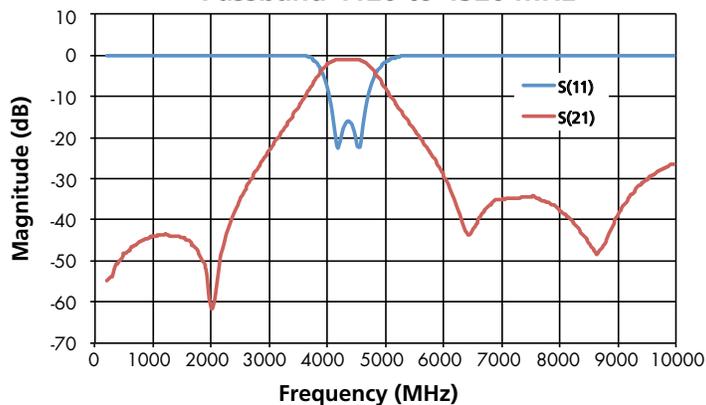
**ATC BPF08051795LTT**  
Passband 1785 to 1805 MHz



**ATC BPF08052160LTT**  
Passband 1960 to 2360 MHz



**ATC BPF08054320LTT**  
Passband 4120 to 4520 MHz



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