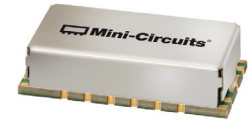


# Surface Mount Bandpass Filter

## BPF-F598+

50Ω 410 to 785 MHz



Generic photo used for illustration purposes only  
CASE STYLE: HP1156

### The Big Deal

- Broad bandwidth
- High Rejection
- Good VSWR
- Miniature shielded package

### Product Overview

BPF-F598+ is a 50Ω bandpass filter in a shielded package fabricated using SMT technology. This bandpass filter covers from 410 to 785 MHz.

### Key Features

Feature	Advantages
Low insertion loss	Can be used in digital cable TV networks and 4G LTE networks.
Good rejection	This enables the filter attenuate spurious signals and reject harmonics for broad frequency band
Shielded package	The small surface mount package enables the BPF-F598+ to used in compact design

#### Notes

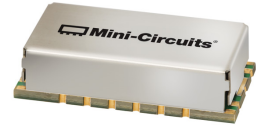
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B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.  
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50Ω 410 to 785 MHz



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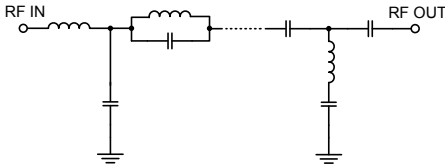
### Features

- Broad bandwidth
- Sharper cut-off
- Miniature shielded package

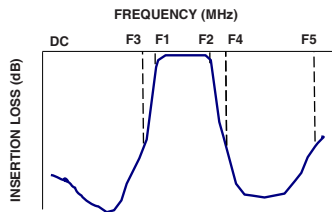
### Applications

- Digital television
- Broad band wireless 4G LTE band
- Biomedical telemetry devise
- Wireless microphone

### Functional Schematic



### Typical Frequency Response



### Electrical Specifications at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Pass Band	Center Frequency	—	—	598	—	MHz	
	Insertion Loss	F1-F2	410-785	—	2.70	4.50	dB
	VSWR	F1-F2	410-785	—	1.46	1.92	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-385	20	34	—	dB
	VSWR	DC-F3	DC-385	—	20	—	:1
Stop Band, Upper	Insertion Loss	F4-F5	825-1600	20	35	—	dB
	VSWR	F4-F5	825-1600	—	20	—	:1

### Maximum Ratings

Operating Temperature	-40°C to 85°C
Storage Temperature	-55°C to 100°C
RF Power Input	1 W

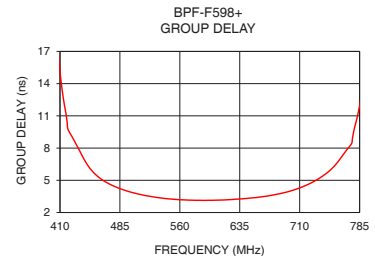
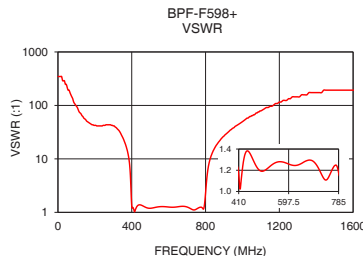
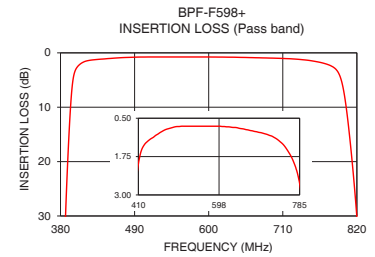
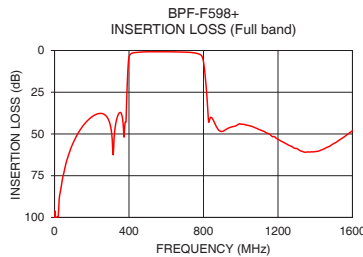
Permanent damage may occur if any of these limits are exceeded.

### Typical Performance Data at 25°C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)	Frequency (MHz)	Group Delay (nsec)
1	102.77	347.44	410	15.16
250	37.70	42.38	414	12.74
315	62.49	38.61	418	10.96
355	37.20	23.49	420	9.75
372	50.61	15.96	430	8.39
385	39.05	9.79	440	6.98
387	31.54	8.68	450	5.89
390	21.83	6.73	460	5.20
394	11.72	3.82	480	4.38
402	3.21	1.20	500	3.87
410	1.99	1.16	598	3.14
598	0.76	1.26	650	3.36
785	2.63	1.18	700	4.04
789	3.04	1.15	720	4.60
806	11.84	3.96	740	5.46
813	20.05	6.39	760	6.93
820	30.25	8.60	770	7.94
825	39.25	9.96	775	8.42
1015	44.24	54.29	780	10.27
1600	48.03	193.02	785	11.95

### +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications



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Page 2 of 3

