Thin-Film RF/Microwave Filters **HP0805 Thin Film High Pass Filter**

General Information





ITF TECHNOLOGY

The HP0805 High Pass Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly.

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction

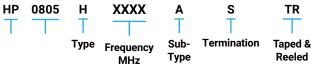
RoHS

- Taped and reeled
- RoHS compliant

APPLICATIONS

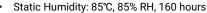
- 5G \ UWB
- Base stations
- Mobile communications
- Satellite TV receivers
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



FINAL QUALITY INSPECTION

Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:



Endurance: 125°C, IR, 4 hours

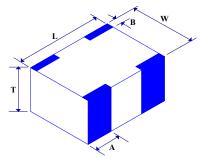
TERMINATION

Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

3W Continuous

DIMENSIONS (BOTTOM VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)		
w	1.55±0.1 (0.061±0.004)		
Т	0.8±0.1 (0.032±0.004)		
A	0.56±0.25 (0.022±0.010)		
В	0.35±0.15 (0.014±0.006)		

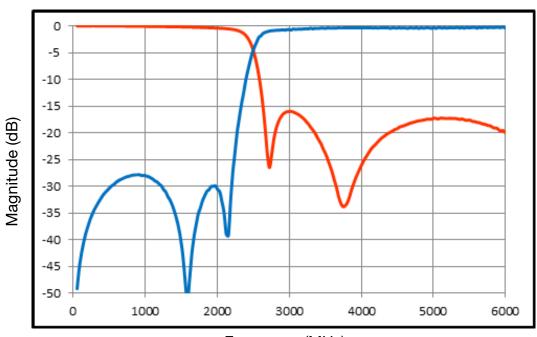
Thin-Film RF/Microwave Filters HP0805 Thin Film High Pass Filter HP0805H2700ASTR



ELECTRICAL CHARACTERISTICS

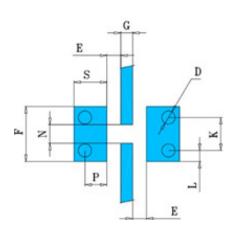
Parameter	Value	Unit	Notes
Fc	2700	MHz	
Insertion Loss @ 2700MHz	-1.1	dB	
Return Loss @ 2700 - 6000 MHz	-15	dB	
Rejection @ 2000MHz	-25	dB	
Power Handling	3	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	degC	

TYPICAL ELECTRICAL PERFORMANCE

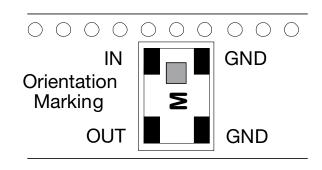


Frequency (MHz)

RECOMMENDED PCB PAD LAYOUT (MM)



Dimensions: millimeters G 0.54 0.85 Ν Ε 0.63 S 1.5 2.5 Κ 1.5 P 1.0 0.5 L Ø0.6



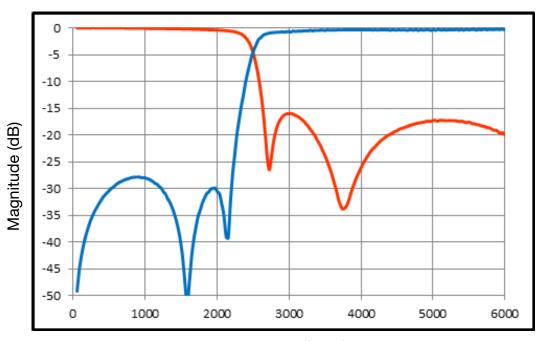
Thin-Film RF/Microwave Filters **HP0805 Thin Film High Pass Filter** HP0805H2800ASTR



ELECTRICAL CHARACTERISTICS

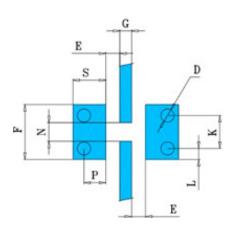
Parameter	Value	Unit	Notes
Fc	2800	MHz	
Insertion Loss @ 2800MHz	-1.0	dB	
Return Loss @ 2800 - 6000 MHz	-15	dB	
Rejection @ 2000MHz	-25	dB	
Power Handling	3	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	degC	

TYPICAL ELECTRICAL PERFORMANCE

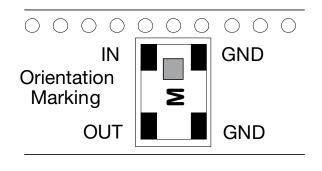


Frequency (MHz)

RECOMMENDED PCB PAD LAYOUT (MM)



G	0.54
Ν	0.85
Ε	0.63
S	1.5
F	2.5
K	1.5
Р	1.0
L	0.5
D	Ø0.6



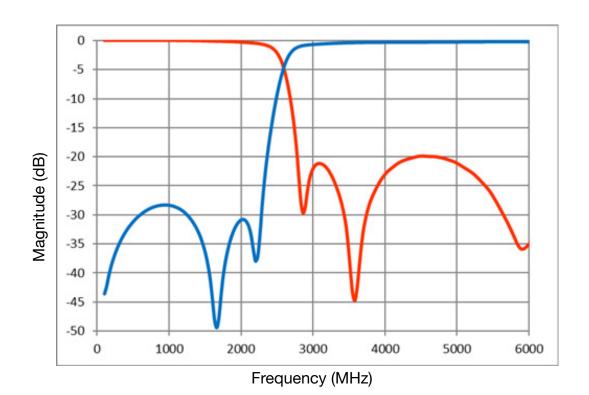
Thin-Film RF/Microwave Filters HP0805 Thin Film High Pass Filter HP0805H2900ASTR



ELECTRICAL CHARACTERISTICS

Parameter	Value	Unit	Notes
Fc	2900	MHz	
Insertion Loss @ 2900MHz	-1.0	dB	
Return Loss @ 2900 - 6000 MHz	-15	dB	
Rejection @ 2000MHz	-25	dB	
Power Handling	3	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	degC	

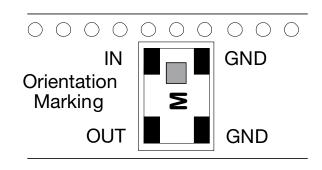
TYPICAL ELECTRICAL PERFORMANCE



RECOMMENDED PCB PAD LAYOUT (MM)

Е S Z P E

Dimensions: millimeters G 0.54 0.85 Ν Ε 0.63 S 1.5 2.5 F Κ 1.5 P 1.0 0.5 L Ø0.6



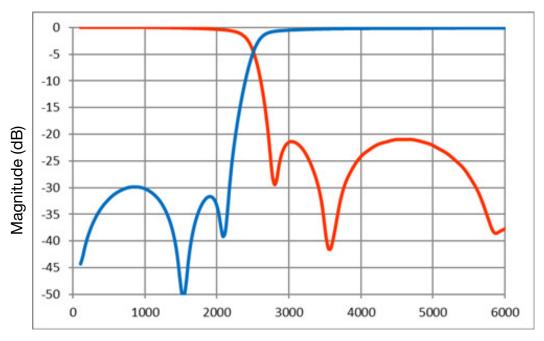
Thin-Film RF/Microwave Filters HP0805 Thin Film High Pass Filter HP0805H3000ASTR



ELECTRICAL CHARACTERISTICS

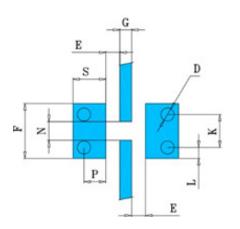
Parameter	Value	Unit	Notes
Fc	3000	MHz	
Insertion Loss @ 3000MHz	-0.85	dB	
Return Loss @ 3000 - 6000 MHz	-15	dB	
Rejection @ 2100MHz	-25	dB	
Power Handling	3	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	degC	

TYPICAL ELECTRICAL PERFORMANCE

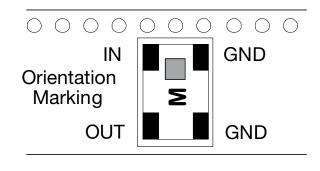


Frequency (MHz)

RECOMMENDED PCB PAD LAYOUT (MM)



G	0.54
Ν	0.85
Ε	0.63
S	1.5
F	2.5
K	1.5
Р	1.0
L	0.5
D	Ø0.6



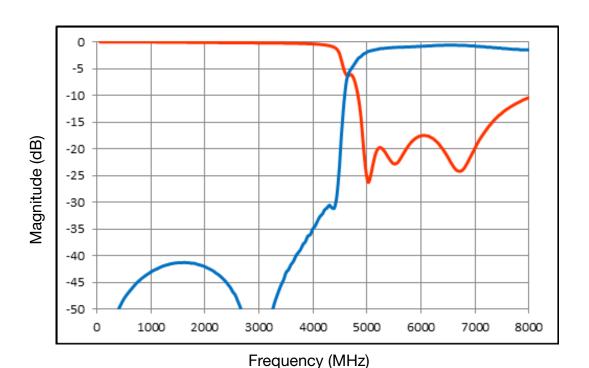
Thin-Film RF/Microwave Filters HP0805 Thin Film High Pass Filter HP0805H5150ASTR



ELECTRICAL CHARACTERISTICS

Parameter	Value	Unit	Notes
Fc	5150	MHz	
Insertion Loss @ 5150 MHz	-1.5	dB	
Return Loss @ 5150 - 7000 MHz	-15	dB	
Rejection @ 4000 MHz	-25	dB	
Power Handling	3	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	degC	

TYPICAL ELECTRICAL PERFORMANCE



RECOMMENDED PCB PAD LAYOUT (MM)

