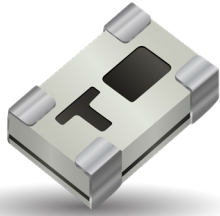


Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A1308ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

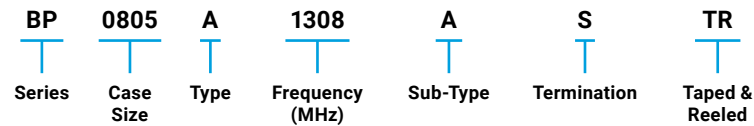
FEATURES

- Small size: 0805
- Frequency: 1308MHz
- Band: 1220-1420MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



FINAL QUALITY INSPECTION

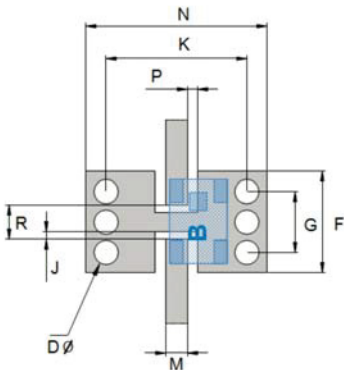
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION

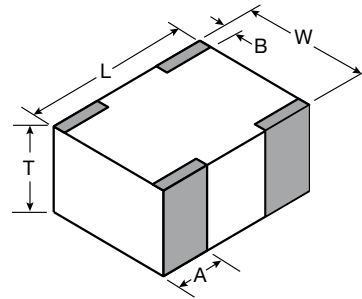
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

RECOMMENDED PAD LAYOUT



mm	
F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

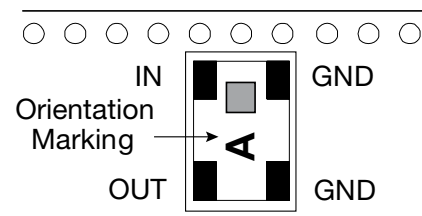
DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

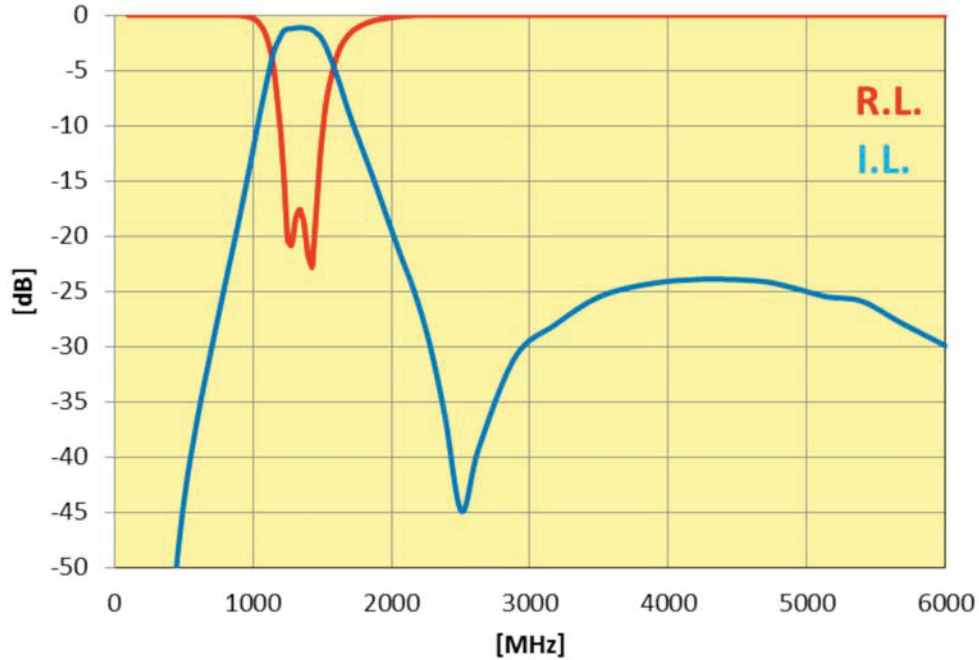
BP0805 Band Pass Filter SMD 5W

BP0805A1308ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	1308 MHz
Impedance	50 Ohm
Band	1220-1420MHz
I. loss at center frequency	1.2dB max.
In-band insertion loss flatness	0.8dB
In-band return loss	12dB
Rejection in [760-945 MHz]	16dBc min.
Rejection in [2920-3105 MHz]	30dBc min
Power handling (CW)	5W
Operating temperature range	-40/+105°C
Package	SMD, standard 0805 size

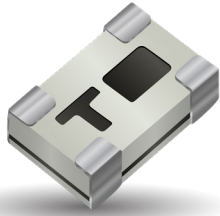
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A1457ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

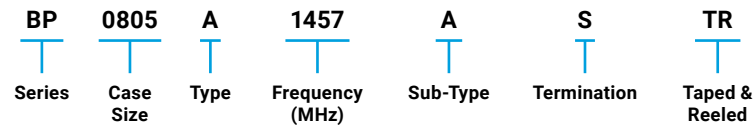
FEATURES

- Small size: 0805
- Frequency: 1457MHz
- Band: 1447-1467MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



FINAL QUALITY INSPECTION

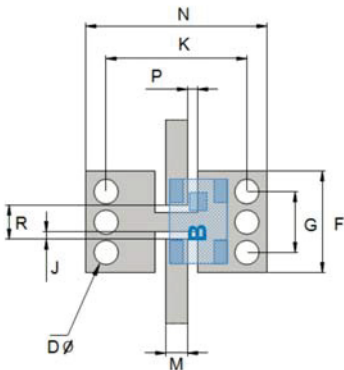
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION

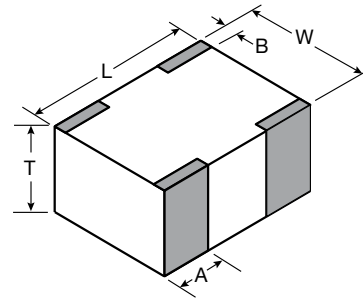
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

RECOMMENDED PAD LAYOUT



mm	
F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

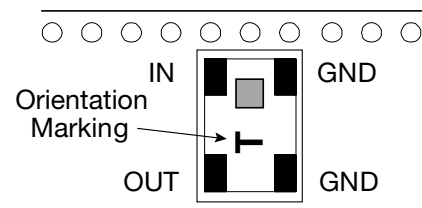
DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

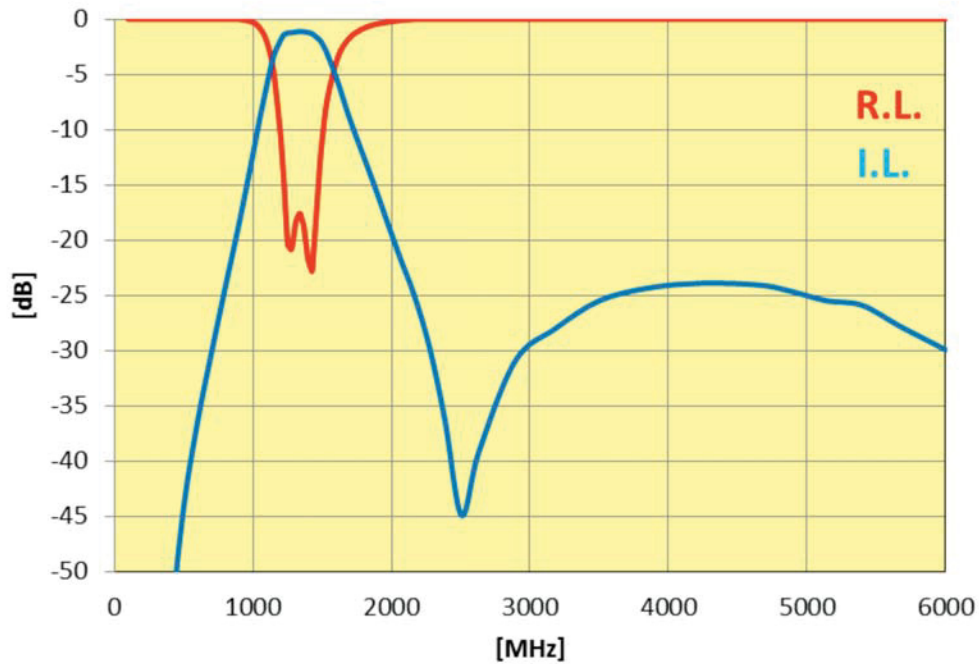
BP0805 Band Pass Filter SMD 5W

BP0805A1457ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	1457 MHz
Impedance	50 Ohm
Band	1447-1467MHz
I. loss 1447-1467MHz	-1.5dB max.
In-band VSWR (return loss)	<1.8 (-11dB)
Rejection 925-960MHz	>=20dB
Rejection in 2110-2170MHz	>=25dB
Rejection in 2300-2400MHz	>=25dB
Rejection in 2500-2690MHz	>=30dB
Rejection 3400-3600MHz	>=30dB
Rejection 5150-5925MHz	>=19dB
Power handling (CW)	5W
Operating temperature range	-40/+105°C
Package	SMD, standard 0805 size

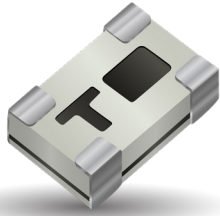
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A1795ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

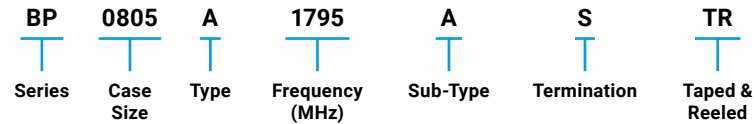
FEATURES

- Small size: 0805
- Frequency: 1795MHz
- Band: 1785-1805MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



FINAL QUALITY INSPECTION

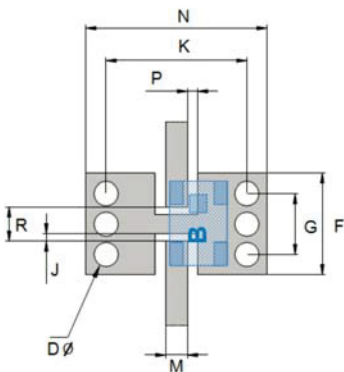
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION

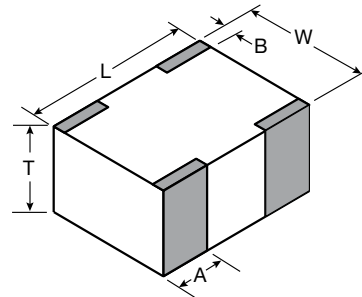
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

RECOMMENDED PAD LAYOUT



mm	
F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

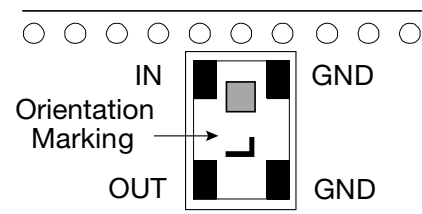
DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

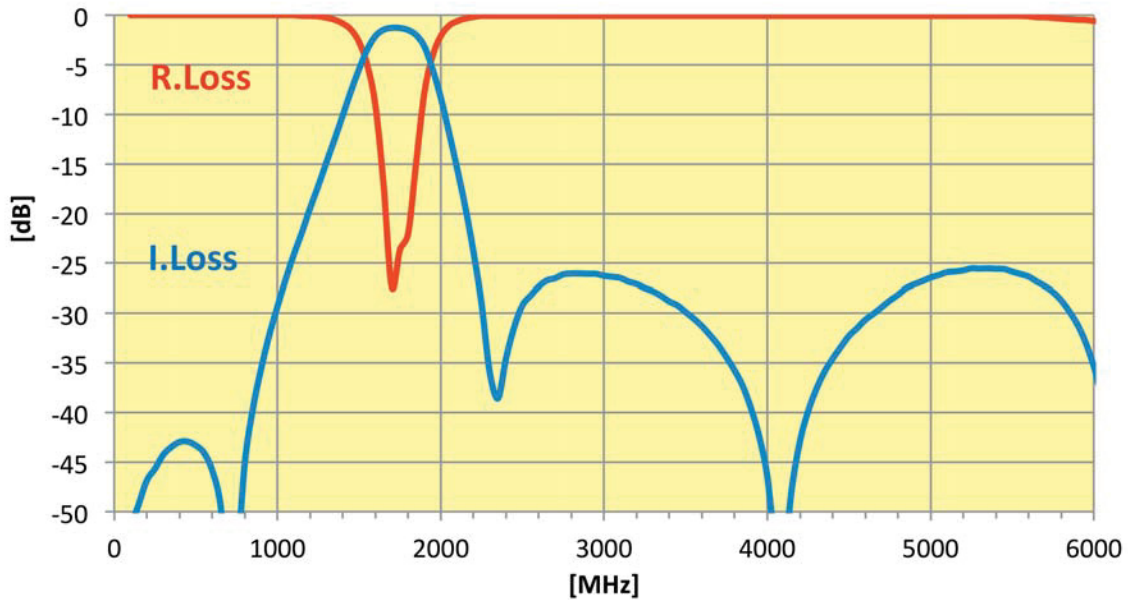
BP0805 Band Pass Filter SMD 5W

BP0805A1795ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	1795 MHz
Impedance	50 Ohm
Band	1785-1805MHz
I. loss in band	-1.8dB max.
Return loss in band	-15dB
Rejection in [869~894MHz]	-30dBc min.
Rejection in [925~960 MHz]	-30dBc min
Rejection in [2300~2400MHz]	-30dBc min
Rejection in [2496~2690MHz]	-25dBc min , -30dBc typ
Rejection in [3400~3600MHz]	-25dBc min , -30dBc typ
Rejection in [5150~5925MHz]	-25dBc min , -30dBc typ
Power handling (CW)	5W
Operating temperature range	-40/+105°C
Package	SMD, standard 0805 size

TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A2065ASTR



ITF TECHNOLOGY

The BP0805 Band 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 ÷ +125°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Base Stations
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER

BP	0805	A	2065	A	S	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination SMD Lead Free (Sn100)	Taped & Reeled

FINAL QUALITY INSPECTION

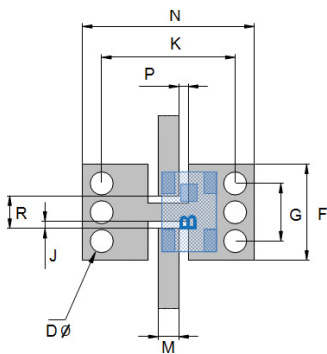
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

TERMINATION

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

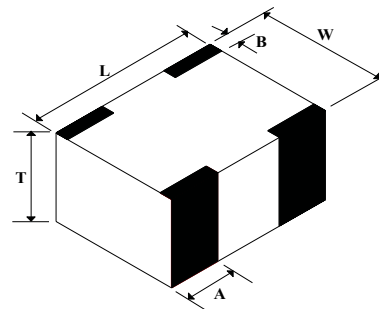
RECOMMENDED PAD LAYOUT: (mm)



F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

DIMENSIONS: mm (inches)

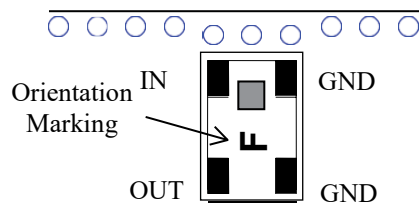
(Bottom View)



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

TERMINALS AND LAYOUT:

(Top View)



Thin-Film RF/Microwave Filters

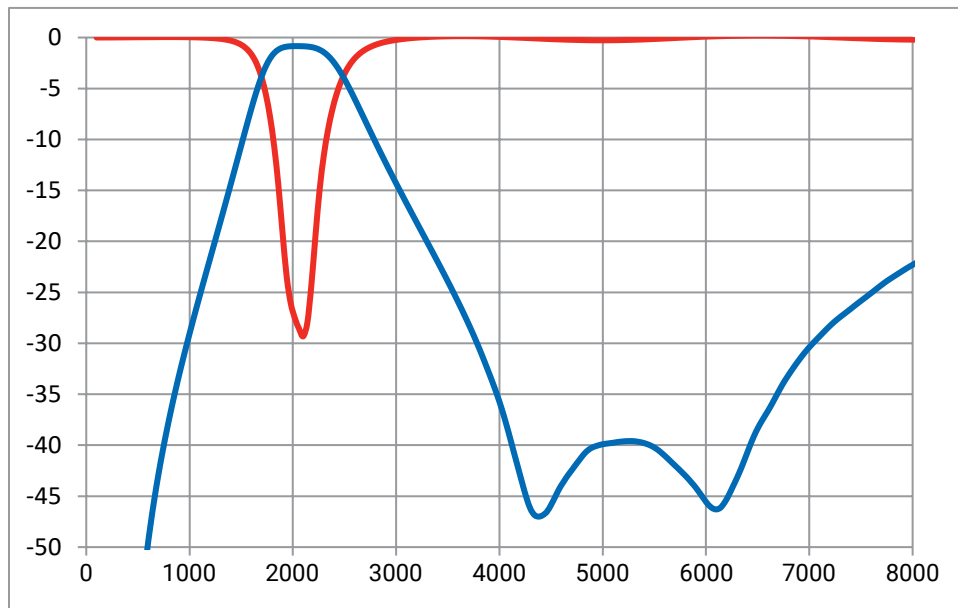
BP0805 Band Pass Filter SMD 5W

BP0805A2065ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	2065 MHz
Impedance	50 Ohm
Band	1930-2200MHz
I. loss in-band	-1.3dB
Return loss in-band	-12 dB
Attenuation @ DC-1000MHz	-20 dB
Attenuation @ 4000-5000 MHz	-25 dB
Attenuation @ 5000-6000 MHz	-30 dB
Power handling (CW)	5W
Operating temperature range	-40/+125°C
Package	SMD, standard 0805 size

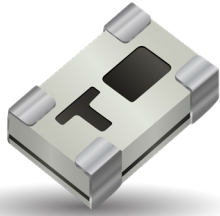
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A2160ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

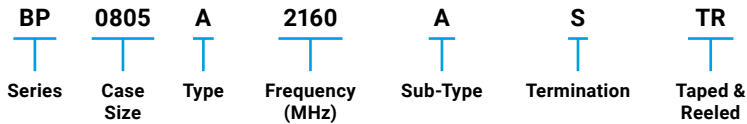
FEATURES

- Small size: 0805
- Frequency: 2160MHz
- Band: 1960-2360MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

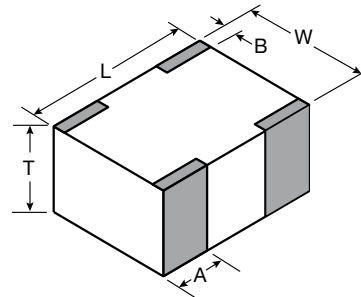
APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



DIMENSIONS (TOP VIEW)



mm (inches)

Dimension	Value (mm)	Value (inches)
L	2.03±0.1	(0.080±0.004)
W	1.55±0.1	(0.061±0.004)
T	0.80±0.1	(0.032±0.004)
A	0.56±0.25	(0.022±0.010)
B	0.35±0.15	(0.014±0.006)

FINAL QUALITY INSPECTION

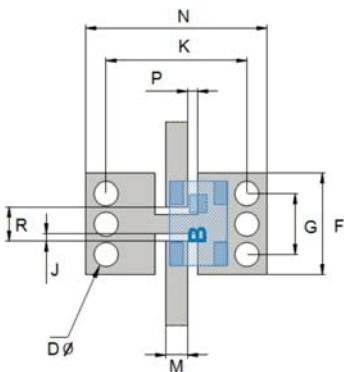
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- 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.

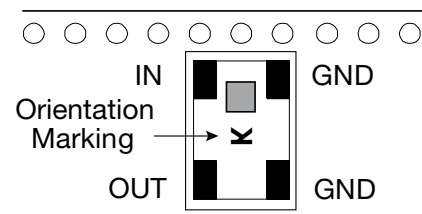
RECOMMENDED PAD LAYOUT



mm

F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

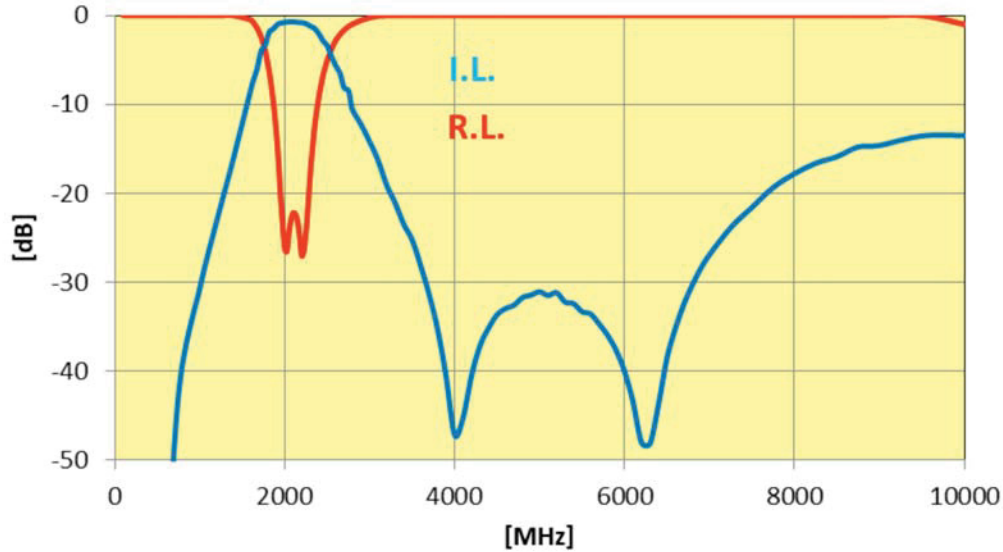
BP0805 Band Pass Filter SMD 5W

BP0805A2160ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	2160 MHz
Impedance	50 Ohm
Band	1960-2360MHz
I. loss at center frequency	0.85dB max
In-band return loss	18dB
Rejection at 440MHz	59dB
Rejection at 4320MHz	42dB
Rejection at 6480MHz	38dB
Power handling (CW)	5W
Operating temperature range	-40/+105°C
Package	SMD, standard 0805 size

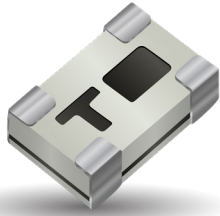
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A3500ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

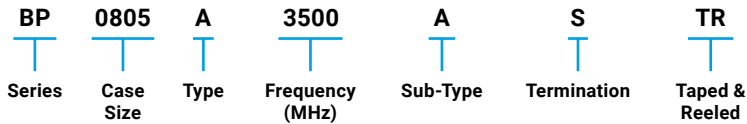
FEATURES

- Small size: 0805
- Band: 3400-3600MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Base station
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



FINAL QUALITY INSPECTION

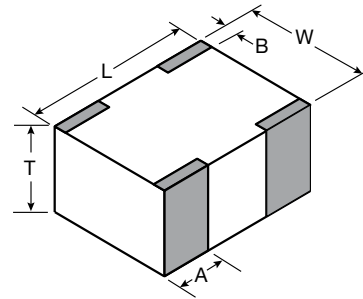
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- 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.

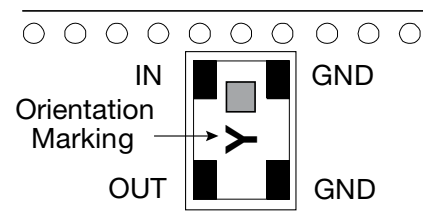
DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

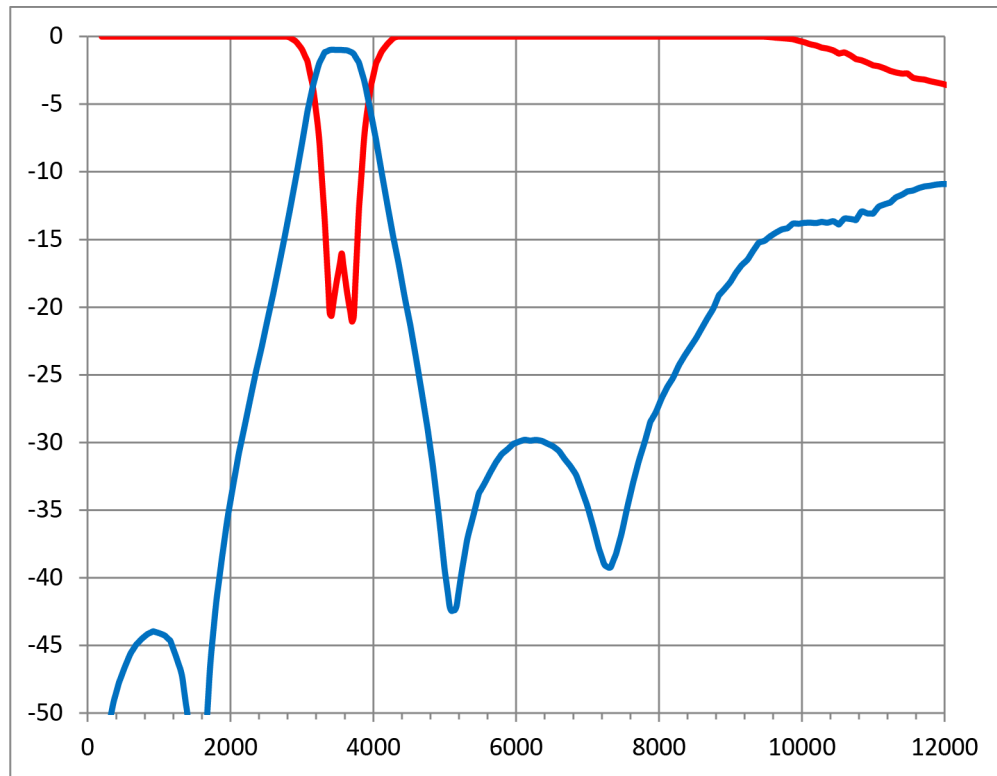
BP0805 Band Pass Filter SMD 5W

BP0805A3500ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	3500 MHz
Impedance	50 ohm
I. loss 3400-3600MHz	-1.3dB max.
In-band return loss	-15dB
Rejection in [370 - 2000MHz]	-20dBc min.
Rejection in [5250-7000MHz]	-25dBc min
Rejection in [7000-9000MHz]	-15dBc min
Power Handling (CW)	5 Watt
Operating Temperature Range	-40/+105 degC
Package	SMD, standard 0805 size

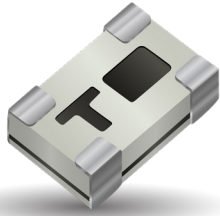
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A3600ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

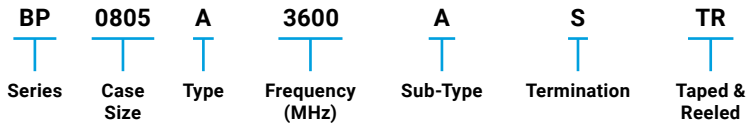
FEATURES

- Small size: 0805
- Band: 3500-3700MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Base station
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



FINAL QUALITY INSPECTION

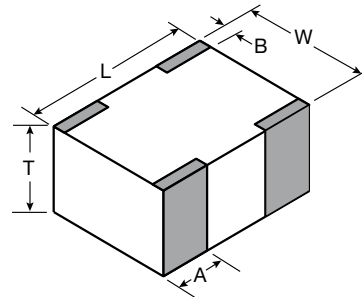
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- 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.

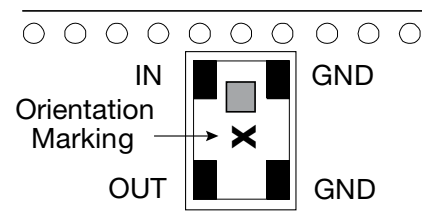
DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

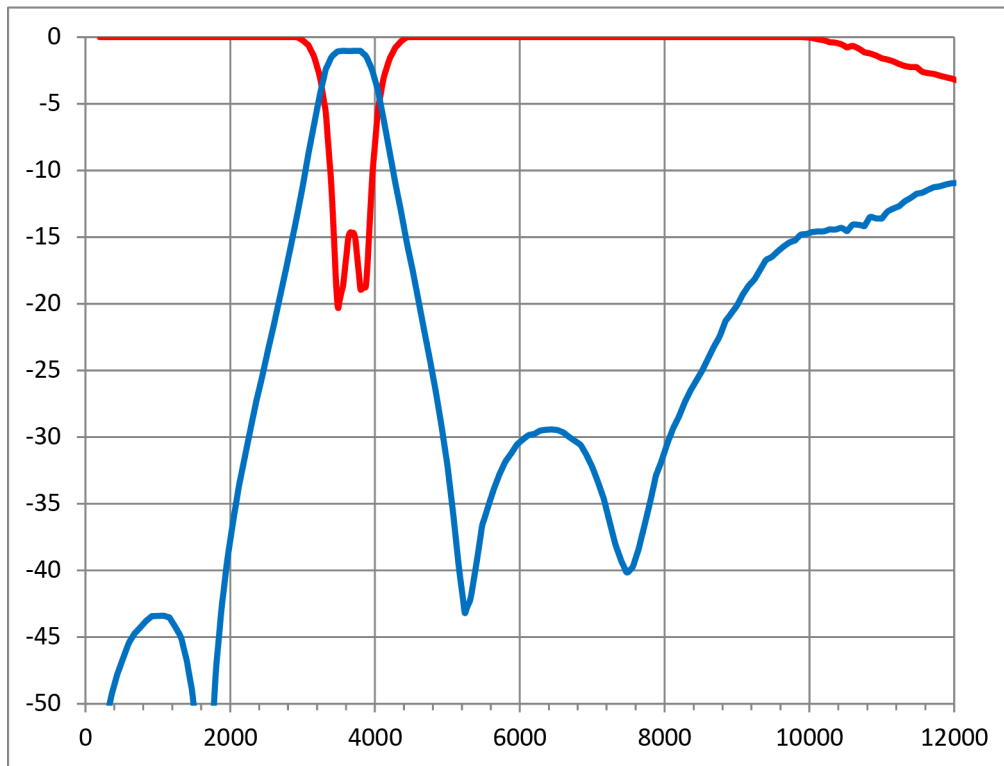
BP0805 Band Pass Filter SMD 5W

BP0805A3600ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	3600 MHz
Impedance	50 ohm
I. loss 3500-3700MHz	-1.3dB max.
In-band return loss	-15dB
rejection in [370 - 2000MHz]	-25dBc min.
rejection in [5300-7200MHz]	-25dBc min
rejection in [7200-11000MHz]	-10dBc min
power handling (CW)	5 Watt
operating temperature range	-40/+105 degC
package	SMD, standard 0805 size

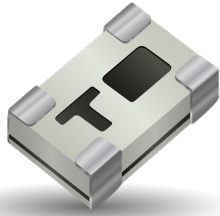
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A3700ASTR



ITF TECHNOLOGY

The BP0805 Band 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
- Band: 3600-3800MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Base station
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER

BP	0805	A	3700	A	S	TR
Series	Case Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

FINAL QUALITY INSPECTION

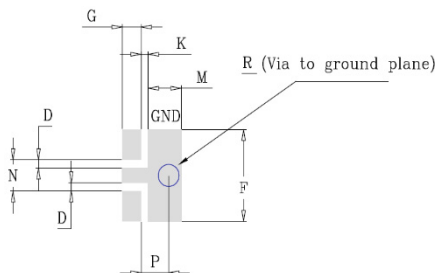
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION

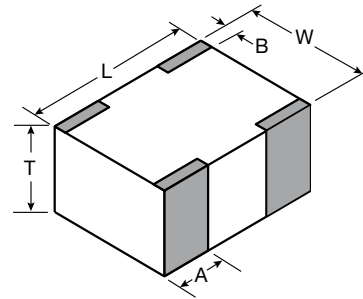
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

RECOMMENDED PAD LAYOUT



mm	
R	∅0.6
G	0.54
K	0.2
N	0.85
M	0.95
F	2.5
P	0.79
D	0.225

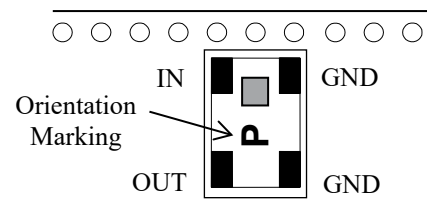
DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

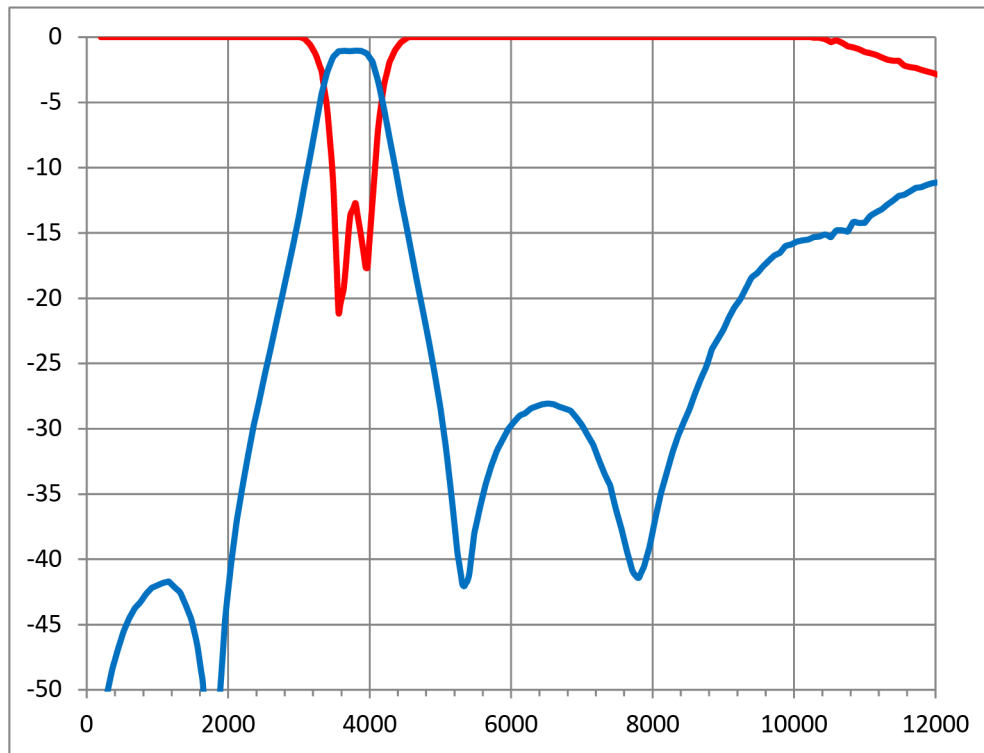
BP0805 Band Pass Filter SMD 5W

BP0805A3700ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	3700 MHz
Impedance	50 ohm
I. loss 3600-3800MHz	-1.3dB max.
In-band return loss	-15dB
rejection in [370 - 2000MHz]	-25dBc min.
rejection in [5300-7400MHz]	-25dBc min
rejection in [7400-11500MHz]	-10dBc min
power handling (CW)	5 Watt
operating temperature range	-40/+105 degC
package	SMD, standard 0805 size

TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A3900ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

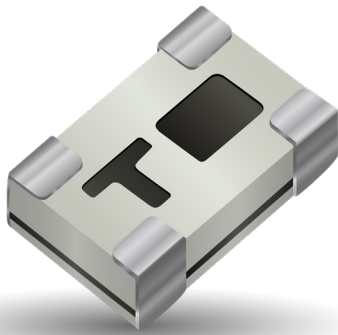
The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

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

APPLICATIONS

- Base Stations
- Mobile communications
- Satellite TV receivers
- Vehicle location systems
- Wireless LAN's



HOW TO ORDER

BP Series	0805 Size	A Type	3900 Frequency (MHz)	A Sub-Type	S Termination SMD Lead Free (Sn100)	TR Taped & Reeled
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FINAL QUALITY INSPECTION

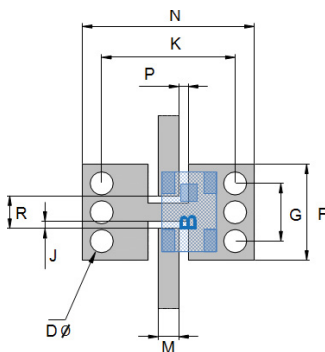
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

TERMINATION

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

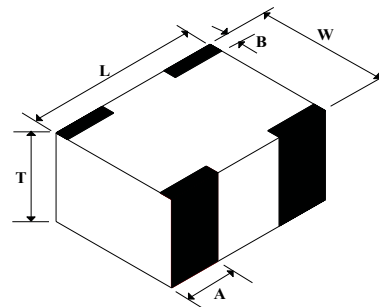
RECOMMENDED PAD LAYOUT: (mm)



F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

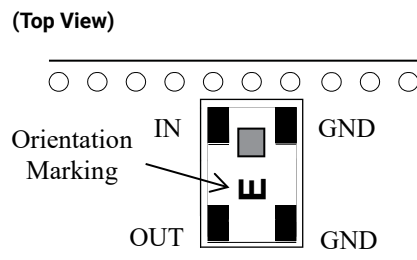
DIMENSIONS: mm (inches)

(Bottom View)



L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINALS AND LAYOUT: (Top View)



Thin-Film RF/Microwave Filters

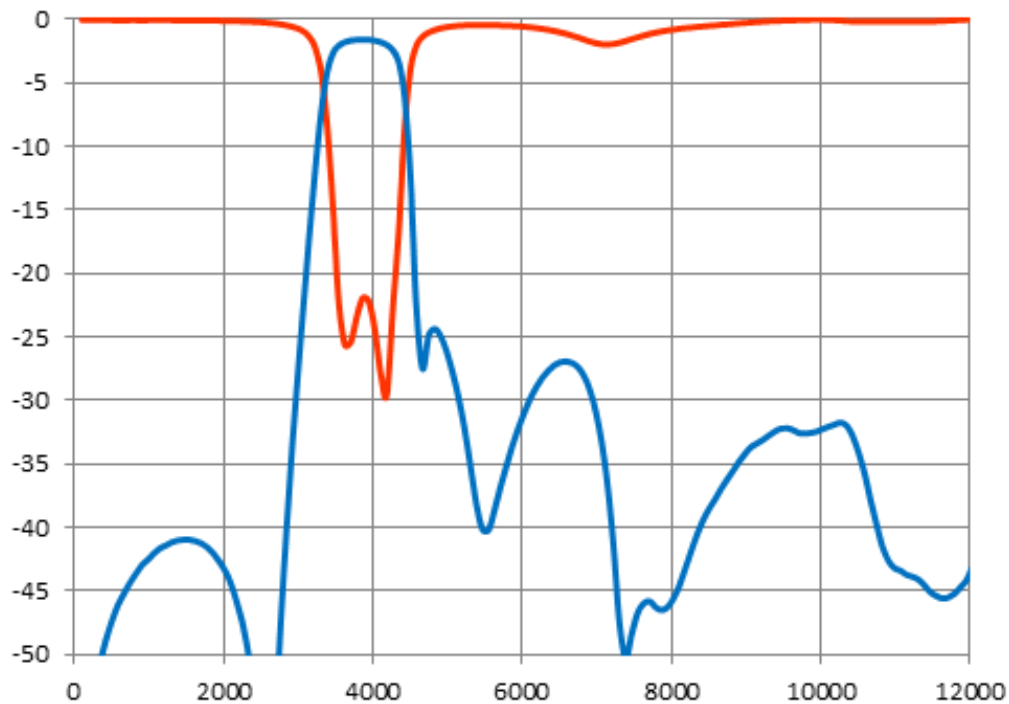
BP0805 Band Pass Filter SMD 5W

BP0805A3900ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	3900 MHz
Impedance	50 Ohm
I. loss 3600-4200Mhz	-2.5 dB
Return loss in-band	-18 dB
Rejection in [DC - 3000Mhz]	-10 dB
Rejection in [5100-6550Mhz]	-22 dB
Rejection in [6550-10000Mhz]	-25 dB
Power handling (CW)	5 Watt
Operating temperature range	-40/+85°C
Package	SMD, standard 0805 size

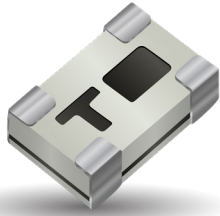
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805B4050ASTR



ITF TECHNOLOGY

The BP0805 Band 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
- Band: 4000-4100MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Base stations
- Mobile communications
- Satellite TV receivers
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER

BP	0805	B	4050	A	S	TR
Series	Case Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

FINAL QUALITY INSPECTION

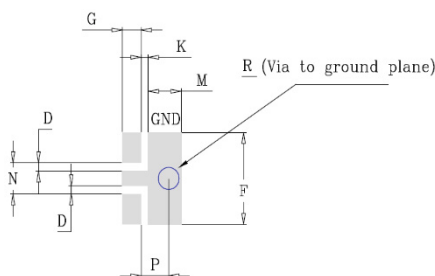
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION

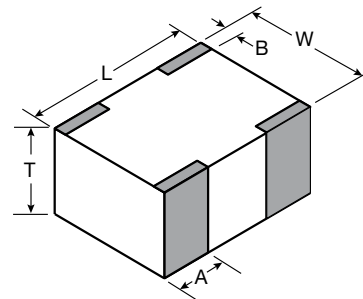
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

RECOMMENDED PAD LAYOUT



mm	
R	∅0.6
G	0.54
K	0.2
N	0.85
M	0.95
F	2.5
P	0.79
D	0.225

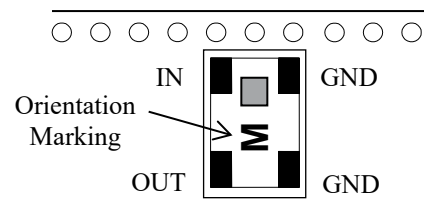
DIMENSIONS (TOP VIEW)



mm (inches)

L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

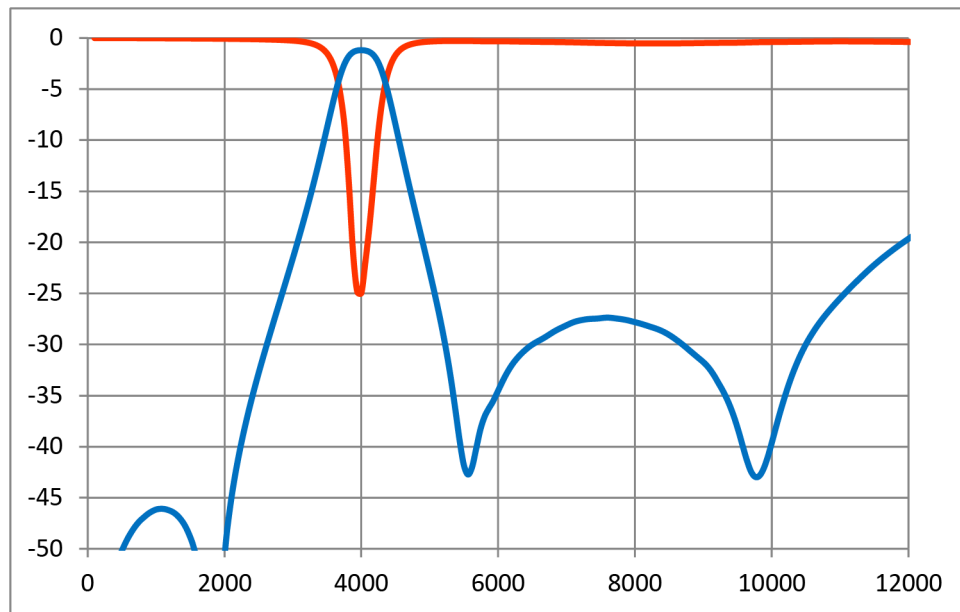
BP0805 Band Pass Filter SMD 5W

BP0805B4050ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	4050 MHz
Impedance	50 ohm
I. loss 4000-4100MHz	-1.3dB max.
In-band return loss	-18dB
Rejection in DC-2000MHz	-25dBc min.
Rejection in 6000-8000MHz	-25dBc min
Rejection in 10000-12000MHz	-15dBc min
Power handling (CW)	5 Watt
operating temperature range	-40/+105 degC
package	SMD, standard 0805 size

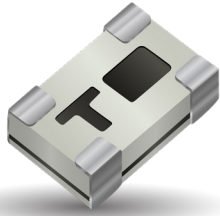
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A4320ASTR



ITF TECHNOLOGY

The BP0805 Band 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.

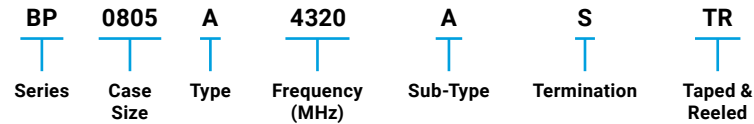
FEATURES

- Small size: 0805
- Frequency: 4320MHz
- Band: 4120-4520MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C – +105°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

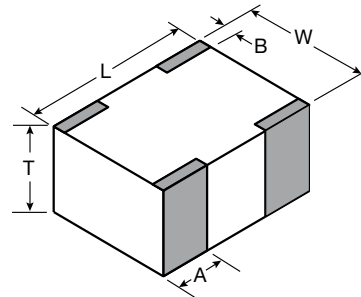
APPLICATIONS

- Base Stations
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

HOW TO ORDER



DIMENSIONS (TOP VIEW)



mm (inches)

Dimension	Value
L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.80±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

FINAL QUALITY INSPECTION

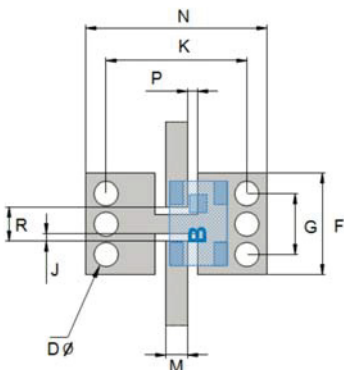
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance : 125°C, IR, 4 hours

TERMINATION

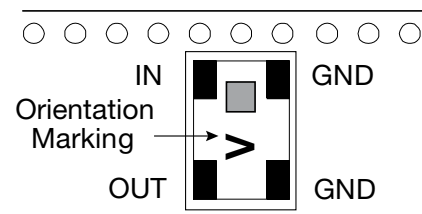
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

RECOMMENDED PAD LAYOUT



Dimension	Value
F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

TERMINAL AND LAYOUT (TOP VIEW)



Thin-Film RF/Microwave Filters

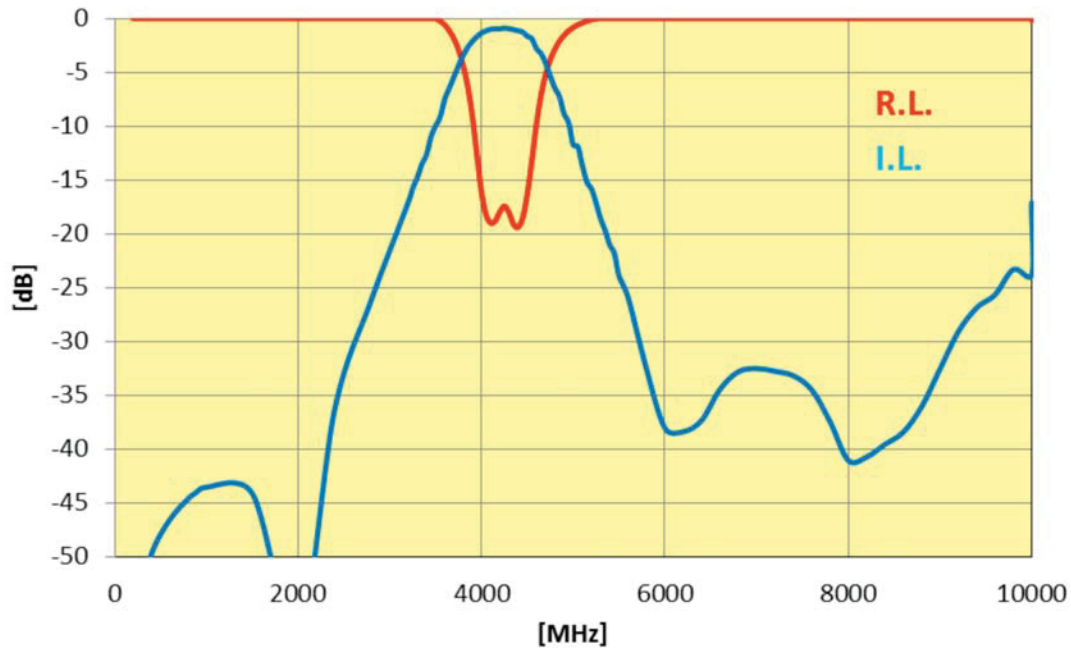
BP0805 Band Pass Filter SMD 5W

BP0805A4320ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	4320 MHz
Impedance	50 Ohm
Band	4120-4520MHz
I. loss at center frequency	1.2dB max
In-band return loss	15dB
Rejection at 2160MHz	45dBc min
Rejection at 6480MHz	39dBc min
Rejection at 8640MHz	44dBc min
Power handling (CW)	5W
Operating temperature range	-40/+105°C
Package	SMD, standard 0805

TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A7250ASTR

ITF TECHNOLOGY

The BP0805 Band 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.

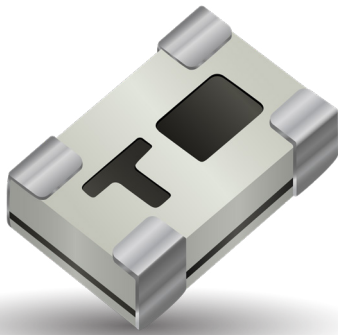
The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Band: 6625 - 7875 MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- 5G / UWB Applications
- Base Stations
- Mobile communications
- Satellite TV receivers
- Vehicle location systems



HOW TO ORDER

BP	0805	A	7250	A	S	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

FINAL QUALITY INSPECTION

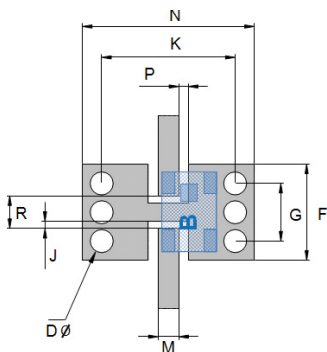
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I_R, 4 hours

TERMINATION

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

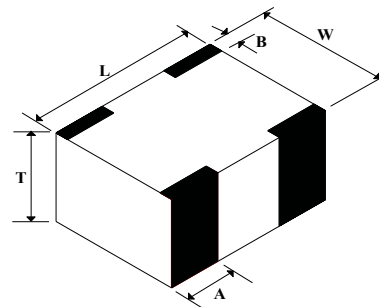
RECOMMENDED PAD LAYOUT: (mm)



F	2.5±0.05
G	1.5±0.05
J	0.19±0.05
K	3.48±0.05
M	0.54±0.25
N	4.48±0.05
P	0.25±0.05
R	0.85±0.05
D	0.6±0.05

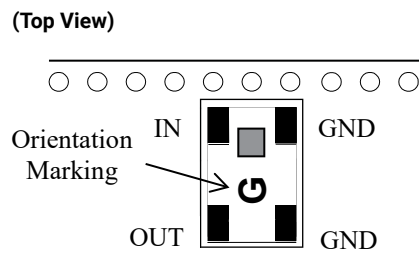
DIMENSIONS: mm (inches)

(Bottom View)



L	2.03±0.1 (0.080±0.004)
W	1.55±0.1 (0.061±0.004)
T	0.8±0.1 (0.032±0.004)
A	0.56±0.25 (0.022±0.010)
B	0.35±0.15 (0.014±0.006)

TERMINALS AND LAYOUT: (Top View)



Thin-Film RF/Microwave Filters

BP0805 Band Pass Filter SMD 5W

BP0805A7250ASTR

ELECTRICAL CHARACTERISTICS

Description	Value
Center frequency	7250 MHz
Impedance	50 ohm
I. loss 6625-7875Mhz	-1.5 dB
Return loss in-band	-12 dB
Rejection in [DC - 5400 Mhz]	-25 dB
Rejection in [10000 - 15000 Mhz]	-25 dB
Power handling (CW)	5 Watt
Operating temperature range	-40/+85°C
Package	SMD, standard 0805 size

TYPICAL ELECTRICAL PERFORMANCE

