

# LP0805 High Performance Low Pass Filter **AVX RF**

## LP0805H1800ASTR



### ITF TECHNOLOGY

The ITF SMD 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: 1800MHz
- Sharp attenuation slope
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C – +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

### APPLICATIONS

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

### HOW TO ORDER

<b>LP</b>	<b>0805</b>	<b>H</b>	<b>1800</b>	<b>A</b>	<b>S</b>	<b>TR</b>
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

### FINAL QUALITY INSPECTION

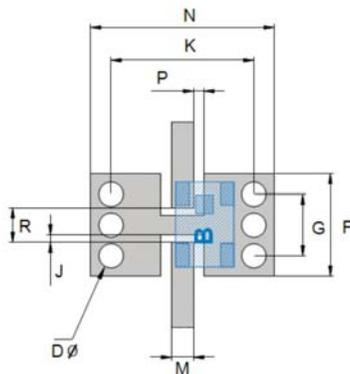
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I<sub>R</sub>, 4 hours

### TERMINATION

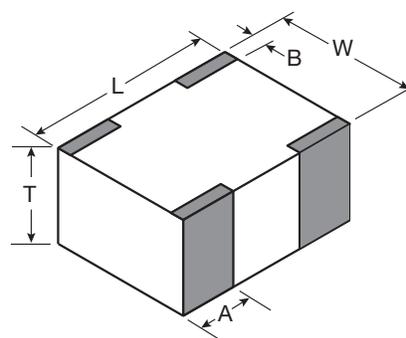
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### RECOMMENDED PAD LAYOUT mm (inches)



<b>F</b>	2.50±0.05 (0.098±0.002)
<b>G</b>	1.50±0.05 (0.059±0.002)
<b>J</b>	0.19±0.05 (0.007±0.002)
<b>K</b>	3.48±0.05 (0.137±0.002)
<b>M</b>	0.54±0.25 (0.021±0.010)
<b>N</b>	4.48±0.05 (0.776±0.002)
<b>P</b>	0.25±0.05 (0.010±0.002)
<b>R</b>	0.85±0.05 (0.033±0.002)
<b>D</b>	0.60±0.05 (0.024±0.002)

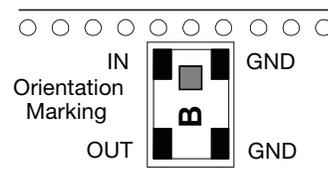
### DIMENSIONS (Top View)



**mm (inches)**

<b>L</b>	2.03±0.10 (0.080±0.004)
<b>W</b>	1.55±0.10 (0.061±0.004)
<b>T</b>	0.80±0.25 (0.031±0.010)
<b>A</b>	0.56±0.10 (0.022±0.004)
<b>B</b>	0.35±0.15 (0.014±0.006)

### TERMINALS AND LAYOUT (Top View)



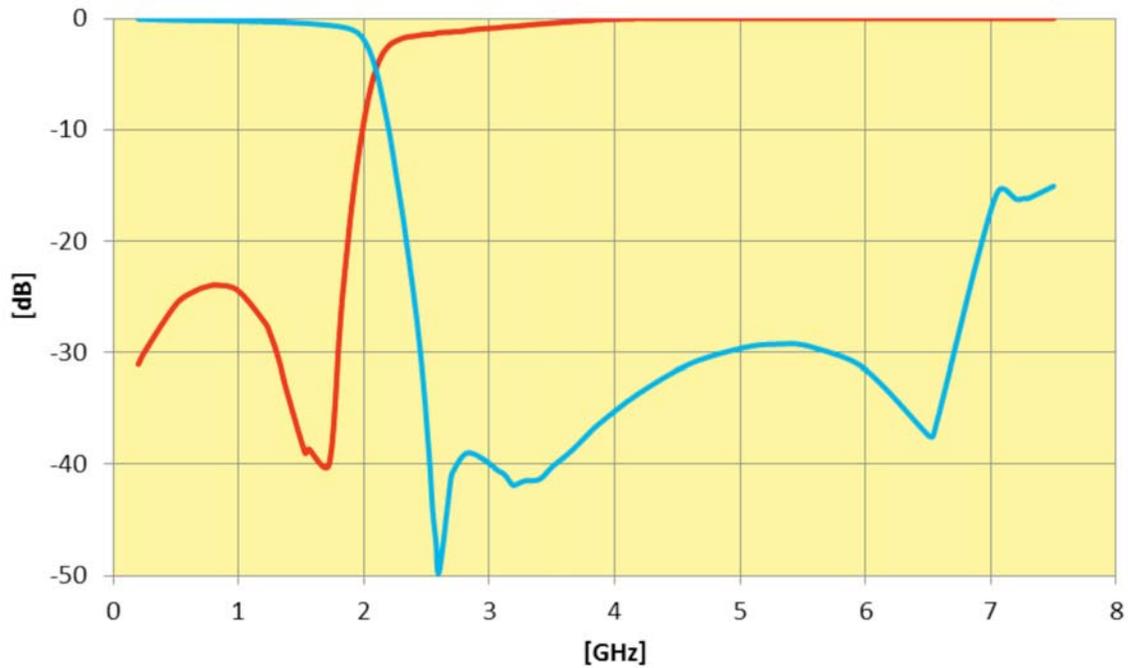
# LP0805 High Performance Low Pass Filter **AVX RF**

LP0805H1800ASTR

## ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 1800mhz	R.Loss @ 1800mhz	Attenuation
LP0805H1800ASTR	1800MHz	-0.8dB max.	-25dB	-35dB at 2520MHz -25dB at 5400MHz

## TYPICAL ELECTRICAL PERFORMANCE



# LP0805 High Performance Low Pass Filter **AVX RF**

## LP0805H1900ASTR



### ITF TECHNOLOGY

The ITF SMD 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: 1900MHz
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C – +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

### APPLICATIONS

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

### HOW TO ORDER

<b>LP</b>	<b>0805</b>	<b>H</b>	<b>1900</b>	<b>A</b>	<b>S</b>	<b>TR</b>
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

### FINAL QUALITY INSPECTION

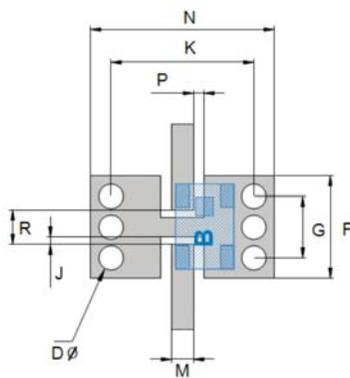
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I<sub>R</sub>, 4 hours

### TERMINATION

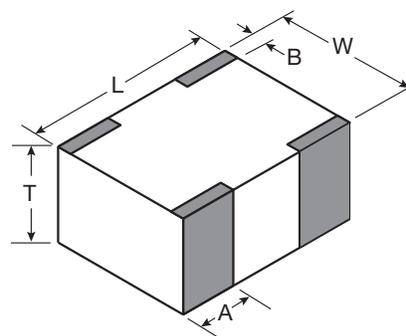
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### RECOMMENDED PAD LAYOUT mm (inches)



<b>F</b>	2.50±0.05 (0.098±0.002)
<b>G</b>	1.50±0.05 (0.059±0.002)
<b>J</b>	0.19±0.05 (0.007±0.002)
<b>K</b>	3.48±0.05 (0.137±0.002)
<b>M</b>	0.54±0.25 (0.021±0.010)
<b>N</b>	4.48±0.05 (0.776±0.002)
<b>P</b>	0.25±0.05 (0.010±0.002)
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<b>D</b>	0.60±0.05 (0.024±0.002)

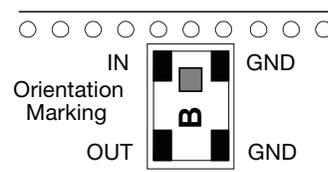
### DIMENSIONS (Top View)



**mm (inches)**

<b>L</b>	2.03±0.10 (0.080±0.004)
<b>W</b>	1.55±0.10 (0.061±0.004)
<b>T</b>	0.80±0.25 (0.031±0.010)
<b>A</b>	0.56±0.10 (0.022±0.004)
<b>B</b>	0.35±0.15 (0.014±0.006)

### TERMINALS AND LAYOUT (Top View)



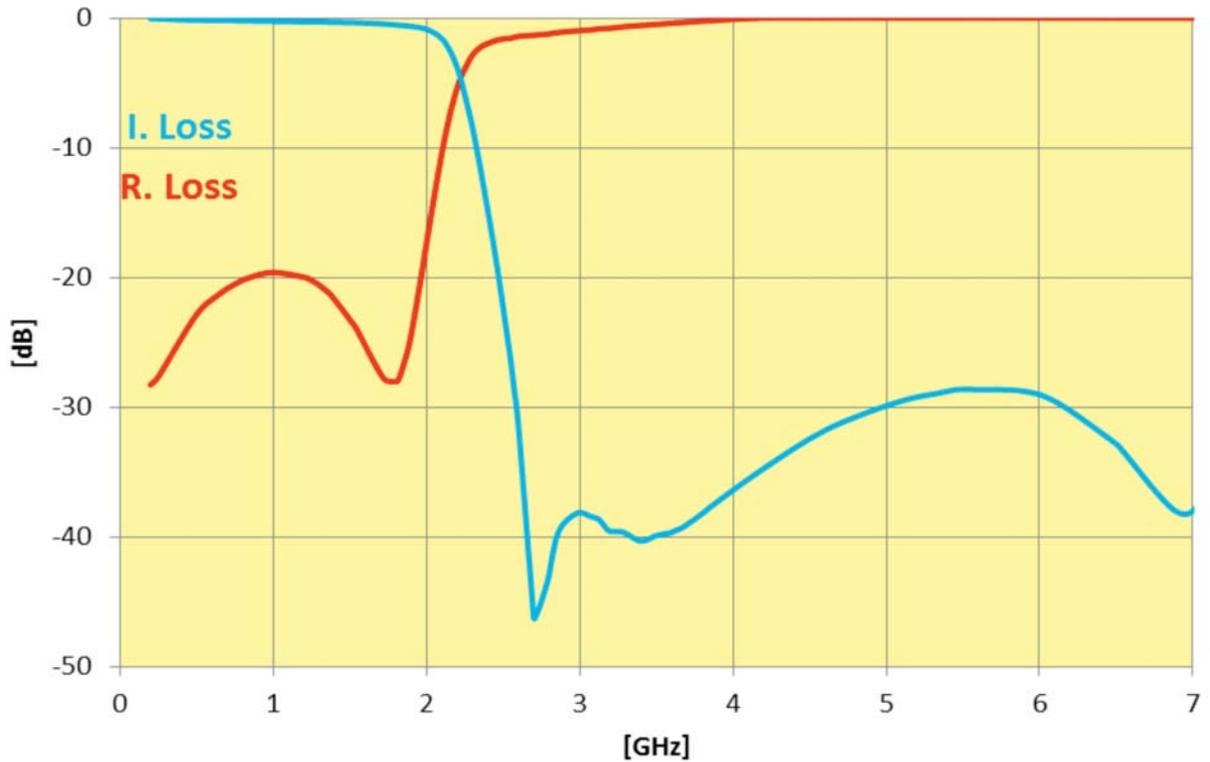
# LP0805 High Performance Low Pass Filter **AVX RF**

LP0805H1900ASTR

## ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 1900mhz	R.Loss @ 1900mhz	Attenuation
LP0805H1900ASTR	1900MHz	-0.75dB max.	-20dB	-20dB at 2250MHz -27dB at 5400MHz

## TYPICAL ELECTRICAL PERFORMANCE



# LP0805 High Performance Low Pass Filter **AVX RF**

## LP0805H2400ASTR



### ITF TECHNOLOGY

The ITF SMD 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

- Frequency: 2400MHz
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C – +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

### APPLICATIONS

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

### HOW TO ORDER

<b>LP</b>	<b>0805</b>	<b>H</b>	<b>2400</b>	<b>A</b>	<b>S</b>	<b>TR</b>
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

### FINAL QUALITY INSPECTION

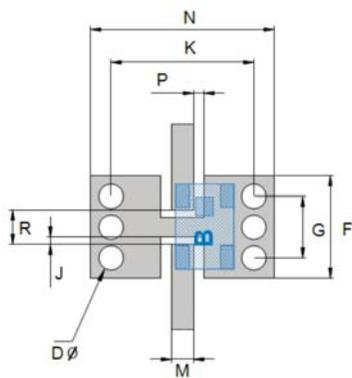
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I<sub>R</sub>, 4 hours

### TERMINATION

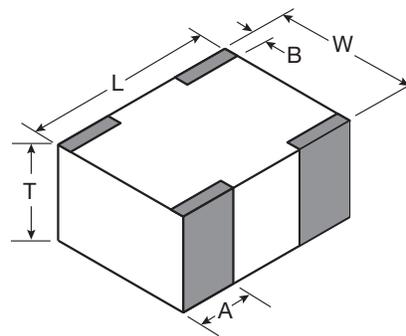
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### RECOMMENDED PAD LAYOUT mm (inches)



<b>F</b>	2.50±0.05 (0.098±0.002)
<b>G</b>	1.50±0.05 (0.059±0.002)
<b>J</b>	0.19±0.05 (0.007±0.002)
<b>K</b>	3.48±0.05 (0.137±0.002)
<b>M</b>	0.54±0.25 (0.021±0.010)
<b>N</b>	4.48±0.05 (0.776±0.002)
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<b>D</b>	0.60±0.05 (0.024±0.002)

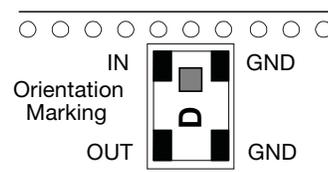
### DIMENSIONS (Top View)



**mm (inches)**

<b>L</b>	2.03±0.10 (0.080±0.004)
<b>W</b>	1.55±0.10 (0.061±0.004)
<b>T</b>	0.80±0.25 (0.031±0.010)
<b>A</b>	0.56±0.10 (0.022±0.004)
<b>B</b>	0.35±0.15 (0.014±0.006)

### TERMINALS AND LAYOUT (Top View)



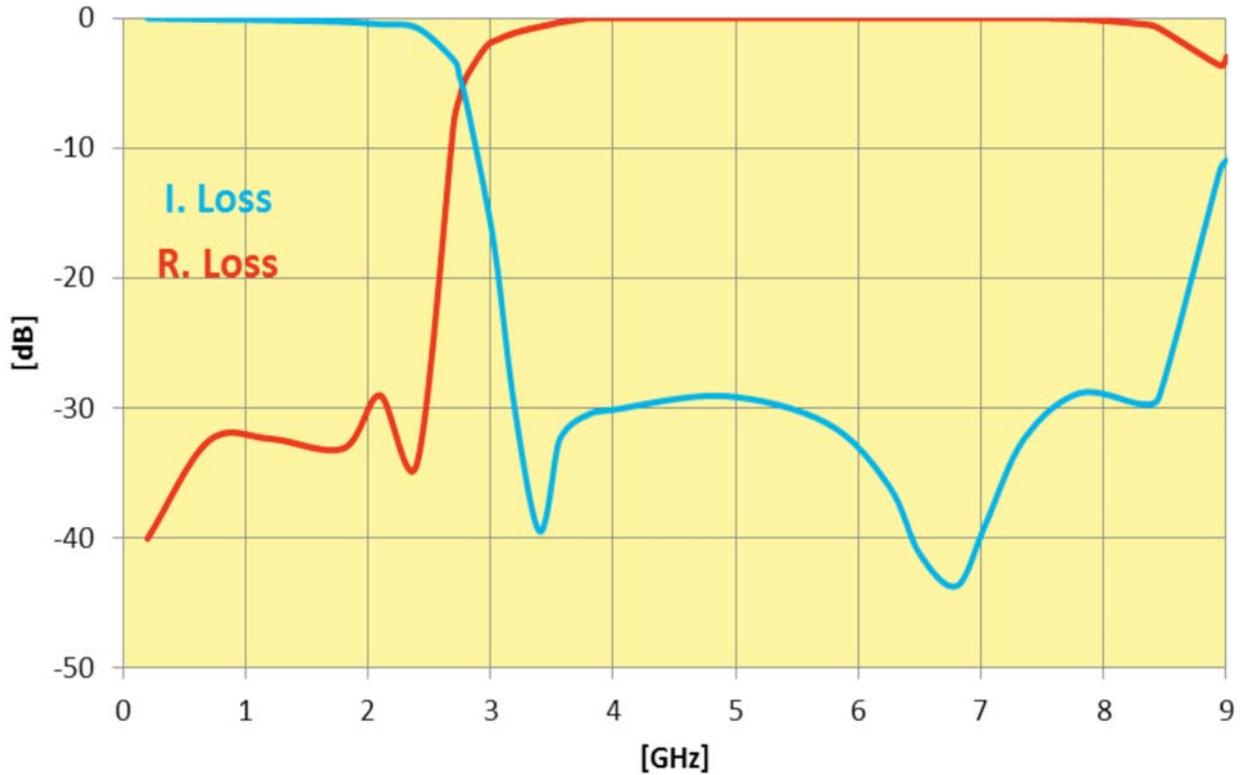
# LP0805 High Performance Low Pass Filter **AVX RF**

LP0805H2400ASTR

## ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 2400mhz	R.Loss @ 2400mhz	Attenuation
LP0805H2400ASTR	2400MHz	-0.9dB max.	-30dB	-35dB at 3360MHz -27dB at 4800MHz

## TYPICAL ELECTRICAL PERFORMANCE



# LP0805 High Performance Low Pass Filter **AVX RF**

## LP0805H2900ASTR



### ITF TECHNOLOGY

The ITF SMD 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

- Frequency: 1700-2900MHz
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C – +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

### APPLICATIONS

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

### HOW TO ORDER

<b>LP</b>	<b>0805</b>	<b>H</b>	<b>XXXX</b>	<b>A</b>	<b>S</b>	<b>TR</b>
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

### FINAL QUALITY INSPECTION

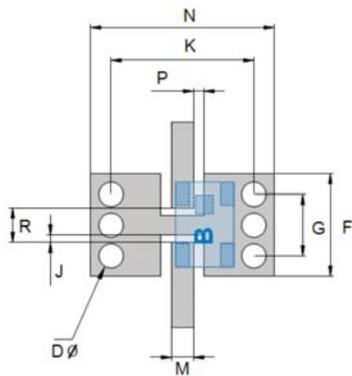
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I<sub>R</sub>, 4 hours

### TERMINATION

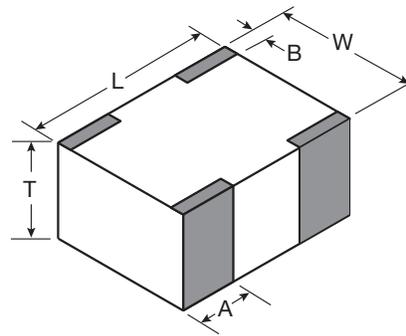
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### RECOMMENDED PAD LAYOUT mm (inches)



<b>F</b>	2.50±0.05 (0.098±0.002)
<b>G</b>	1.50±0.05 (0.059±0.002)
<b>J</b>	0.19±0.05 (0.007±0.002)
<b>K</b>	3.48±0.05 (0.137±0.002)
<b>M</b>	0.54±0.25 (0.021±0.010)
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<b>R</b>	0.85±0.05 (0.033±0.002)
<b>D</b>	0.60±0.05 (0.024±0.002)

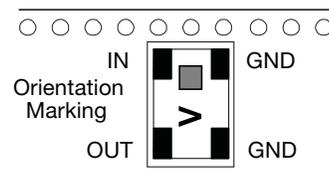
### DIMENSIONS (Top View)



**mm (inches)**

<b>L</b>	2.03±0.10 (0.080±0.004)
<b>W</b>	1.55±0.10 (0.061±0.004)
<b>T</b>	0.80±0.25 (0.031±0.010)
<b>A</b>	0.56±0.10 (0.022±0.004)
<b>B</b>	0.35±0.15 (0.014±0.006)

### TERMINALS AND LAYOUT (Top View)



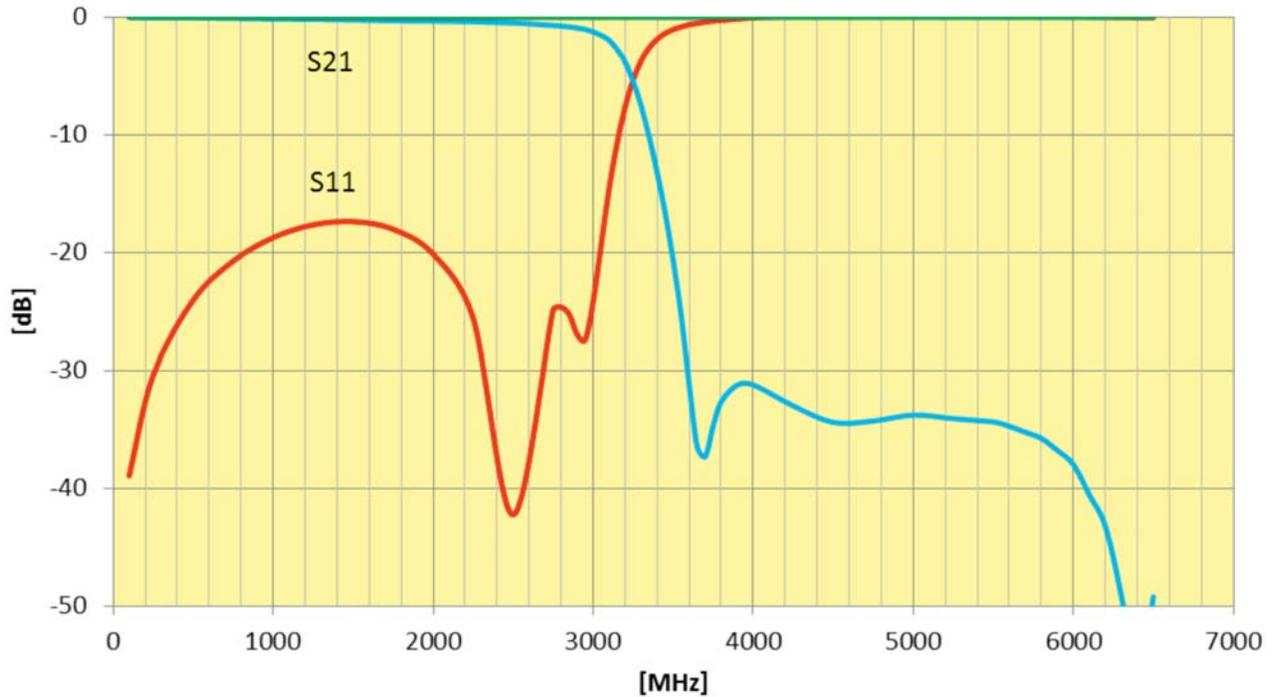
# LP0805 High Performance Low Pass Filter **AVX RF**

LP0805H2900ASTR

## ELECTRICAL CHARACTERISTICS

P/N	Frequency (MHz)	I.Loss	Attenuation (dB)
LP0805H2900ASTR	1710-1910	-0.4dB max.	-30dB at 3620MHz
	1700-2700	-0.8 dB max	-30dB at 5000MHz -35dB at 5460MHz

## TYPICAL ELECTRICAL PERFORMANCE



# LP0805 High Performance Low Pass Filter **AVX RF**

## LP0805H3500ASTR



### ITF TECHNOLOGY

The ITF SMD 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: 3500MHz
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C – +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

### APPLICATIONS

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

### HOW TO ORDER

<b>LP</b>	<b>0805</b>	<b>H</b>	<b>3500</b>	<b>A</b>	<b>S</b>	<b>TR</b>
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

### FINAL QUALITY INSPECTION

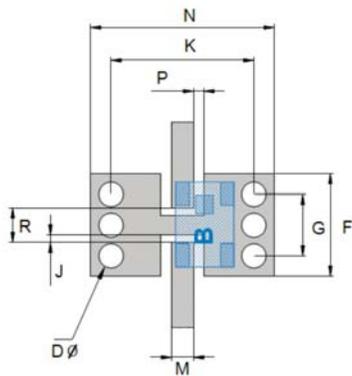
Finished parts are 100% tested for electrical parameters and visual/mechanical characteristics. Each production lot is evaluated on a sample basis for:

- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I<sub>R</sub>, 4 hours

### TERMINATION

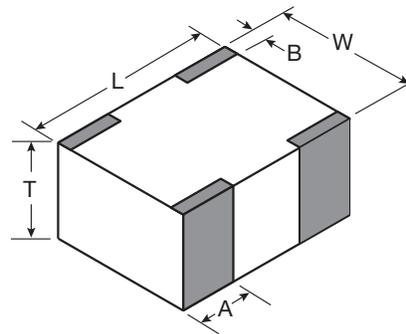
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### RECOMMENDED PAD LAYOUT mm (inches)



<b>F</b>	2.50±0.05 (0.098±0.002)
<b>G</b>	1.50±0.05 (0.059±0.002)
<b>J</b>	0.19±0.05 (0.007±0.002)
<b>K</b>	3.48±0.05 (0.137±0.002)
<b>M</b>	0.54±0.25 (0.021±0.010)
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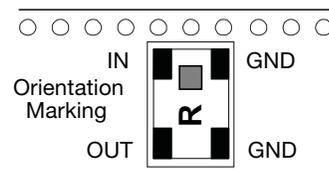
### DIMENSIONS (Top View)



**mm (inches)**

<b>L</b>	2.03±0.10 (0.080±0.004)
<b>W</b>	1.55±0.10 (0.061±0.004)
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### TERMINALS AND LAYOUT (Top View)



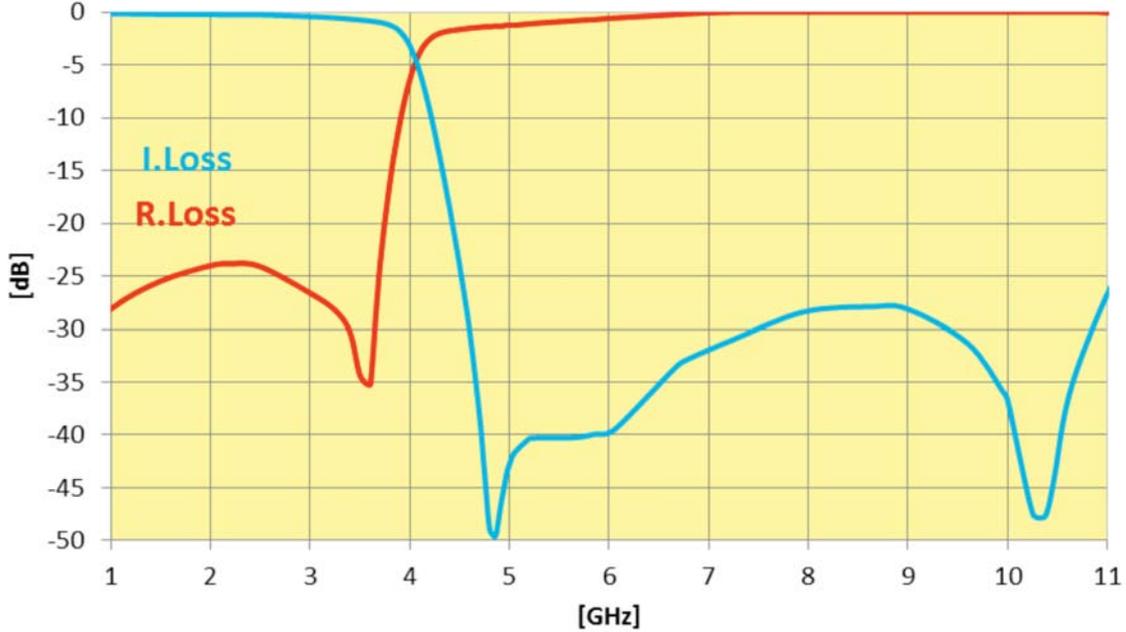
# LP0805 High Performance Low Pass Filter **AVX RF**

LP0805H3500ASTR

## ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 3500mhz	R.Loss @ 3500mhz	Attenuation
LP0805H3500ASTR	3500MHz	-0.85dB max.	-30dB	-25dB at 4550MHz -27dB at 8500MHz

## TYPICAL ELECTRICAL PERFORMANCE



# LP0805 High Performance Low Pass Filter **AVX RF**

## LP0805H4000ASTR



### ITF TECHNOLOGY

The ITF SMD 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

- Frequency: 4000MHz
- Characteristic impedance: 50Ohm
- Operating / Storage temp: -40°C – +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

### APPLICATIONS

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

### HOW TO ORDER

<b>LP</b>	<b>0805</b>	<b>H</b>	<b>4000</b>	<b>A</b>	<b>S</b>	<b>TR</b>
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination	Taped & Reeled

### FINAL QUALITY INSPECTION

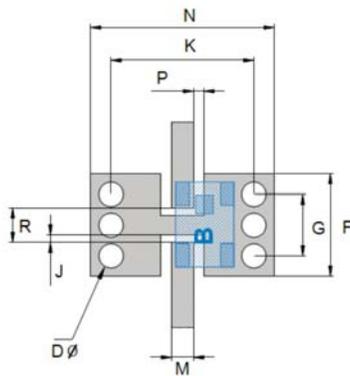
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- Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I<sub>R</sub>, 4 hours

### TERMINATION

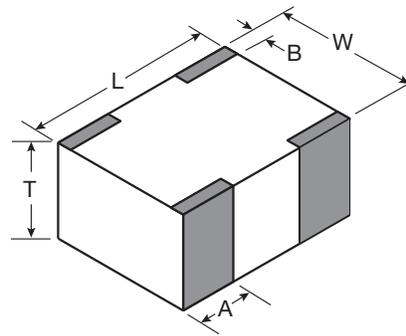
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### RECOMMENDED PAD LAYOUT mm (inches)



<b>F</b>	2.50±0.05 (0.098±0.002)
<b>G</b>	1.50±0.05 (0.059±0.002)
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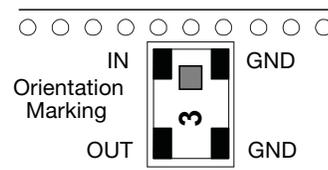
### DIMENSIONS (Top View)



mm (inches)

<b>L</b>	2.03±0.10 (0.080±0.004)
<b>W</b>	1.55±0.10 (0.061±0.004)
<b>T</b>	0.80±0.25 (0.031±0.010)
<b>A</b>	0.56±0.10 (0.022±0.004)
<b>B</b>	0.35±0.15 (0.014±0.006)

### TERMINALS AND LAYOUT (Top View)



# LP0805 High Performance Low Pass Filter **AVX RF**

LP0805H4000ASTR

## ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 4000mhz	R.Loss @ 4000mhz	Attenuation
LP0805H4000ASTR	4000MHz	-0.8dB max.	-20dB	-35dB at 5600MHz -25dB at 10000MHz

## TYPICAL ELECTRICAL PERFORMANCE

