# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A0700ASTR – SMD Termination

### 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: 1206
- Frequency: 700MHz
- 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

### 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

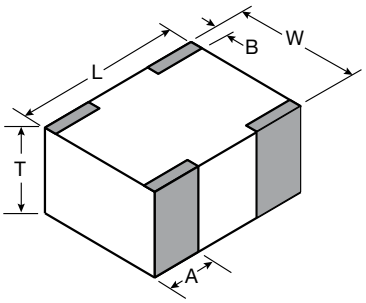
### TERMINATION

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

### HOW TO ORDER

| LP | 1206 | A | 0700 | A | S | TR |
|---|---|---|---|---|---|---|
| Series | Size | Type | Frequency (MHz) | Sub-Type | Termination | Taped & Reeled |

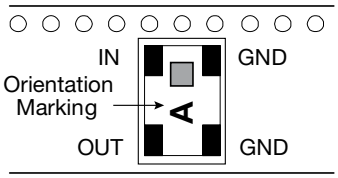
### DIMENSIONS (TOP VIEW)



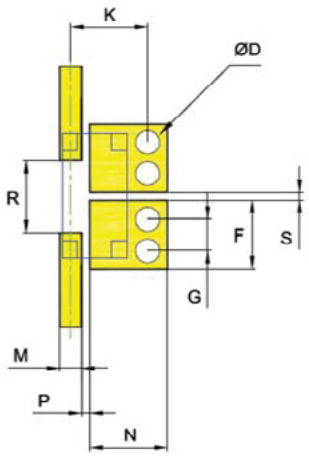

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINAL AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT




mm (inches)

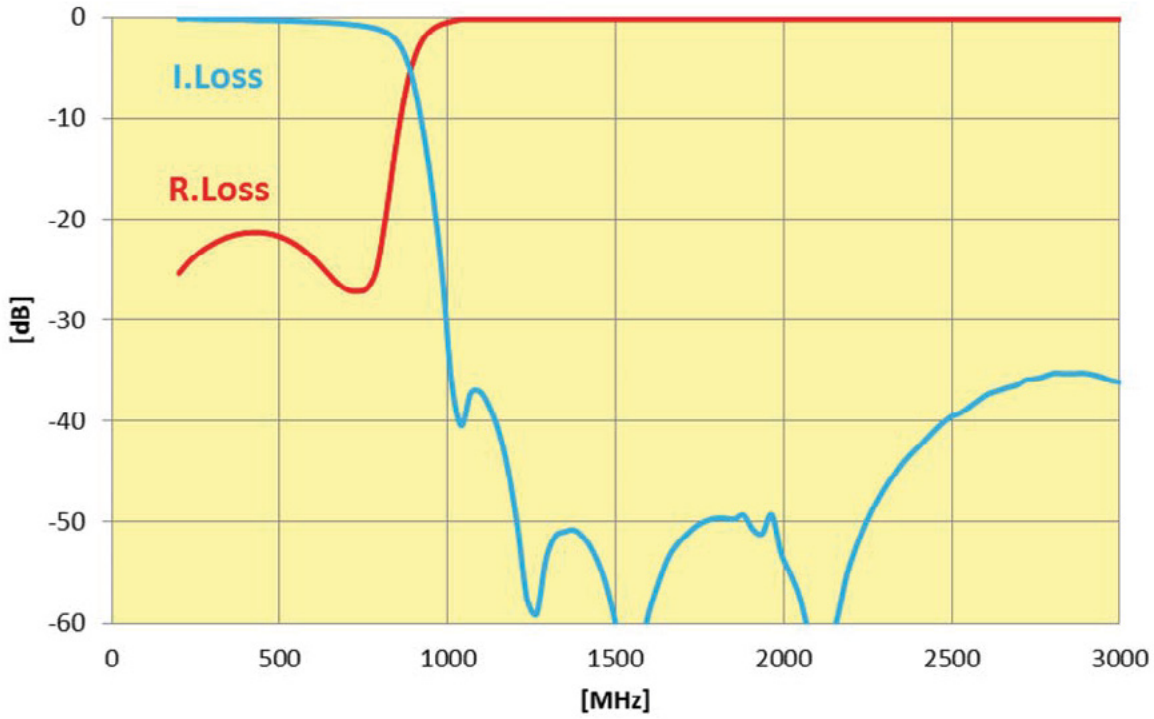
| | |
|---|---|
| F | 1.70±0.05 (0.067±0.002) |
| G | 0.78±0.05 (0.031±0.002) |
| K | 1.91±0.10 (0.075±0.004) |
| M | 0.54±0.025 (0.021±0.001) |
| N | 1.93±0.05 (0.076±0.002) |
| P | 0.21±0.04 (0.008±0.002) |
| R | 1.80±0.04 (0.071±0.002) |
| S | 0.20±0.04 (0.008±0.002) |
| D | 0.60±0.10 (0.024±0.004) |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 700MHz | R.Loss @ 700MHz | Attenuation |
|---|---|---|---|
| LP1206A0700ASTR | 0.8dB max. | -20dB | -20dB at 980MHz<br>-45dB at 1400MHz<br>-45dB at 2100MHz<br>-30dB at 2800MHz |

### TYPICAL ELECTRICAL PERFORMANCE






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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A0860ASTR – SMD Termination

### 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: 1206
- Frequency: 860MHz
- 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

### 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

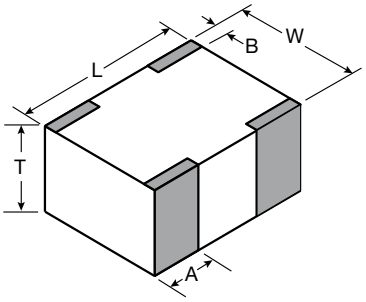
### TERMINATION

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

### HOW TO ORDER

| LP | 1206 | A | 0860 | A | S | TR |
|---|---|---|---|---|---|---|
| Series | Size | Type | Frequency (MHz) | Sub-Type | Termination | Taped & Reeled |

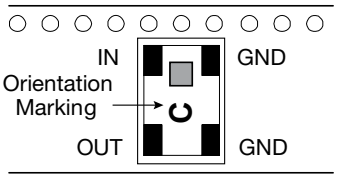
### DIMENSIONS (TOP VIEW)



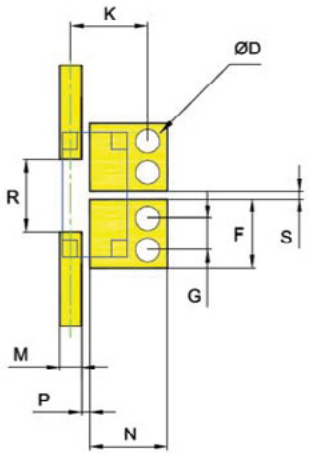

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINAL AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT




mm (inches)

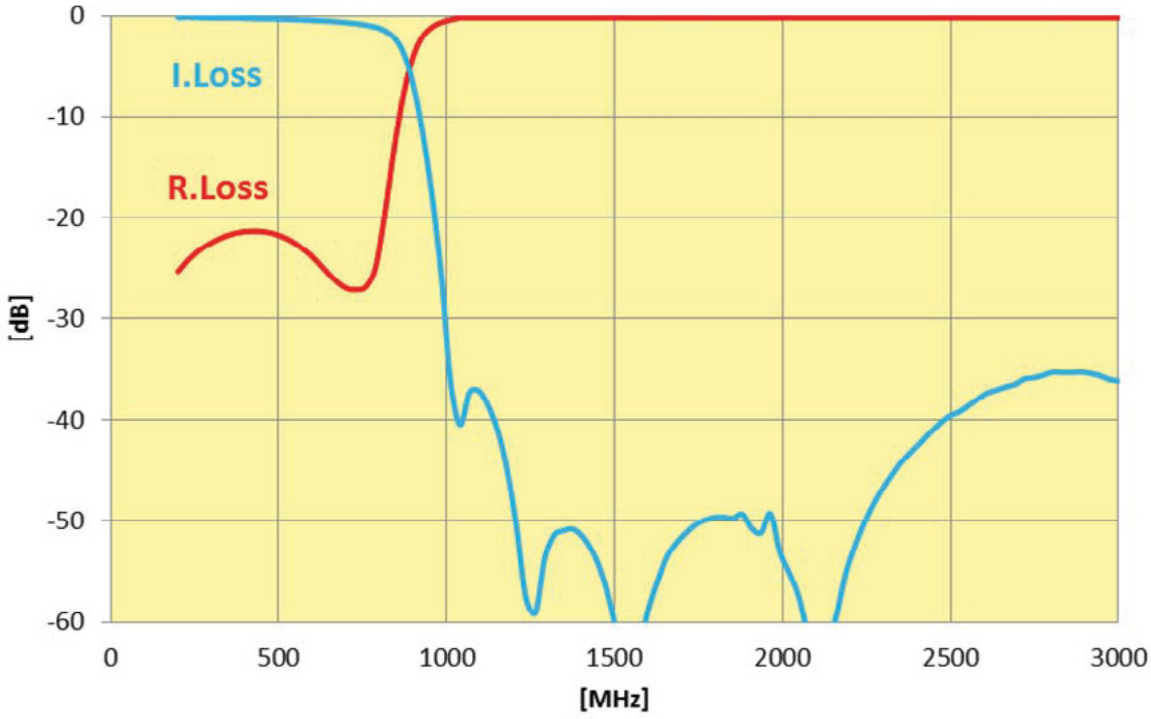
| | |
|---|---|
| F | 1.70±0.05 (0.067±0.002) |
| G | 0.78±0.05 (0.031±0.002) |
| K | 1.91±0.10 (0.075±0.004) |
| M | 0.54±0.025 (0.021±0.001) |
| N | 1.93±0.05 (0.076±0.002) |
| P | 0.21±0.04 (0.008±0.002) |
| R | 1.80±0.04 (0.071±0.002) |
| S | 0.20±0.04 (0.008±0.002) |
| D | 0.60±0.10 (0.024±0.004) |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 860MHz | R.Loss @ 860MHz | Attenuation |
|---|---|---|---|
| LP1206A0860ASTR | 0.85dB max. | -18dB | -25dB at 1204MHz<br>-45dB at 1720MHz<br>-45dB at 2580MHz<br>-30dB at 3440MHz |

### TYPICAL ELECTRICAL PERFORMANCE






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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A1000ASTR – SMD Termination

### 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: 1206
- Frequency: 1000MHz
- 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

### 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.

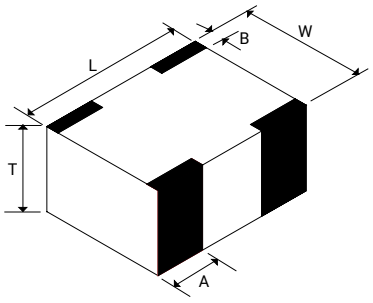
### PART NUMBER CODE:

LP 1206 A XXXX ASTR

Frequency (MHz)

### DIMENSIONS

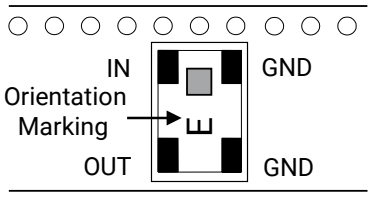
(TOP VIEW)



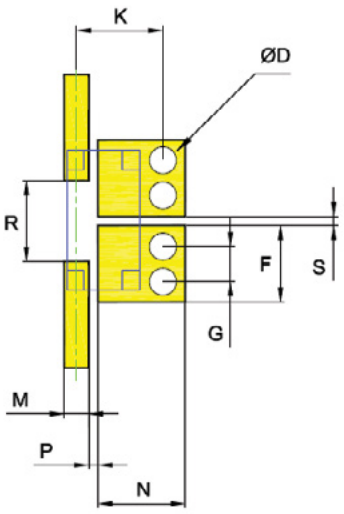

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINALS (TOP VIEW)




### RECOMMENDED PAD LAYOUT



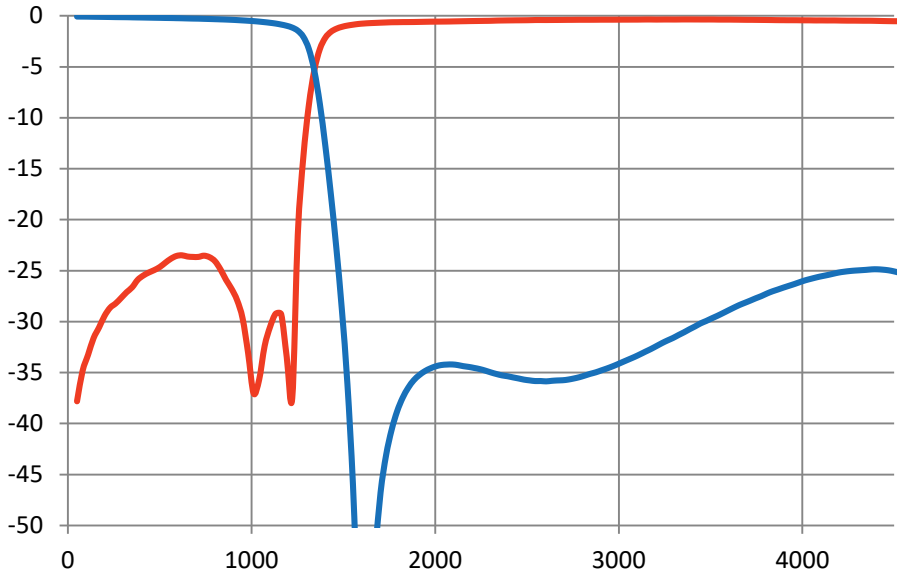

(mm)

| | |
|---|---|
| F | 1.70±0.05 |
| G | 0.78±0.05 |
| K | 1.91±0.10 |
| M | 0.54±0.025 |
| N | 1.93±0.05 |
| P | 0.21±0.04 |
| R | 1.80±0.04 |
| S | 0.20±0.04 |
| D | 0.6±0.1 |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 1000MHz | R.Loss @ 1000MHz | ATTENUATION [min.] |
|---|---|---|---|
| LP1206A1000ASTR | 0.7dB max. | -15dB | -30dB at 1500-2000MHz<br>-25dB at 2000-3000MHz<br>-25dB at 3000-4000MHz |






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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A1100ASTR – SMD Termination

### 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: 1206
- Frequency: 1100MHz
- 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

### 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.

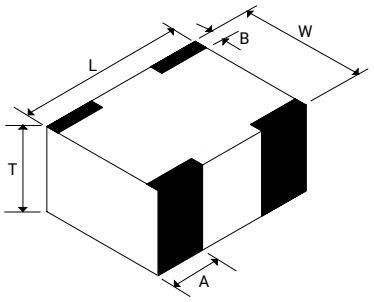
### PART NUMBER CODE:

LP 1206 A XXXX ASTR

Frequency (MHz)

### DIMENSIONS

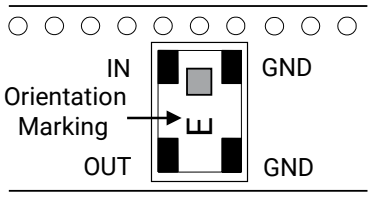
(TOP VIEW)



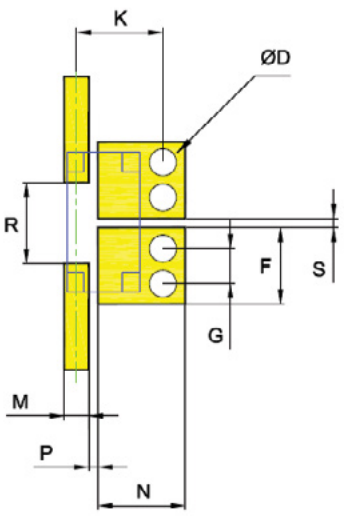

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINALS (TOP VIEW)




### RECOMMENDED PAD LAYOUT



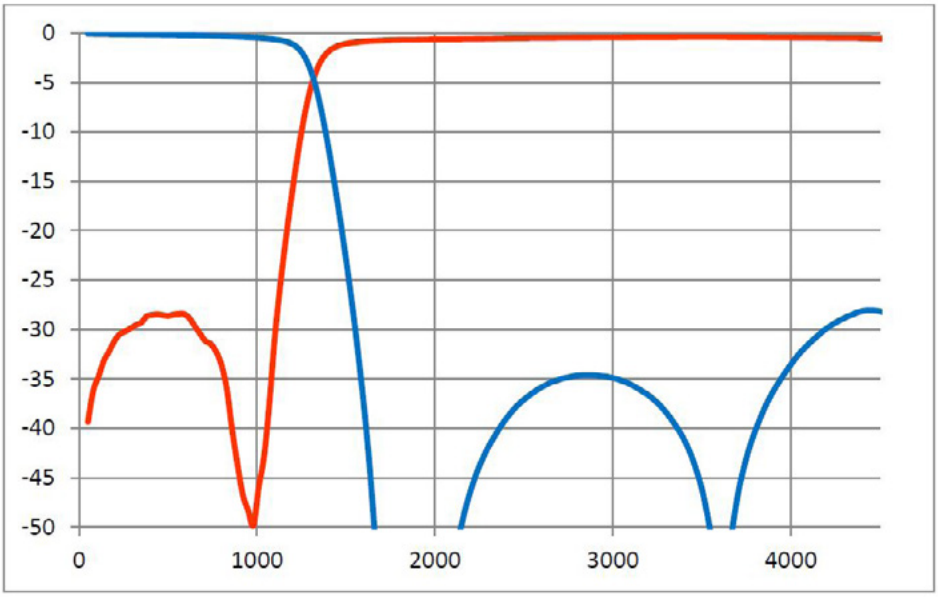

(mm)

| | |
|---|---|
| F | 1.70±0.05 |
| G | 0.78±0.05 |
| K | 1.91±0.10 |
| M | 0.54±0.025 |
| N | 1.93±0.05 |
| P | 0.21±0.04 |
| R | 1.80±0.04 |
| S | 0.20±0.04 |
| D | 0.6±0.1 |

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## ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 1100MHz | R.Loss @ 1100MHz | ATTENUATION [min.] |
|---|---|---|---|
| LP1206A1100ASTR | 0.8dB max. | -15dB | -30dB at 2000-4000MHz |





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021622

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A1500ASTR – SMD Termination

### 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: 1206
- Frequency: 1500MHz
- 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

### 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:

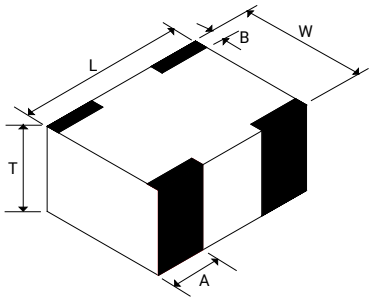
Nickel/ Lead-Free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### PART NUMBER CODE:

LP 1206 A XXXX ASTR

Frequency (MHz)

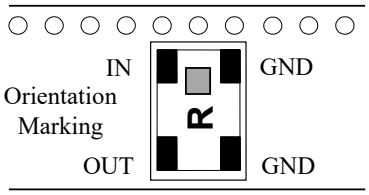
### DIMENSIONS (TOP VIEW)



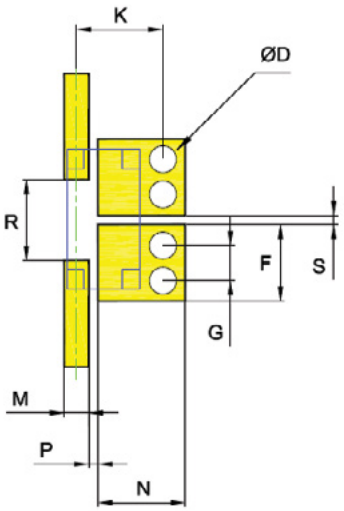

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINALS (TOP VIEW)




### RECOMMENDED PAD LAYOUT



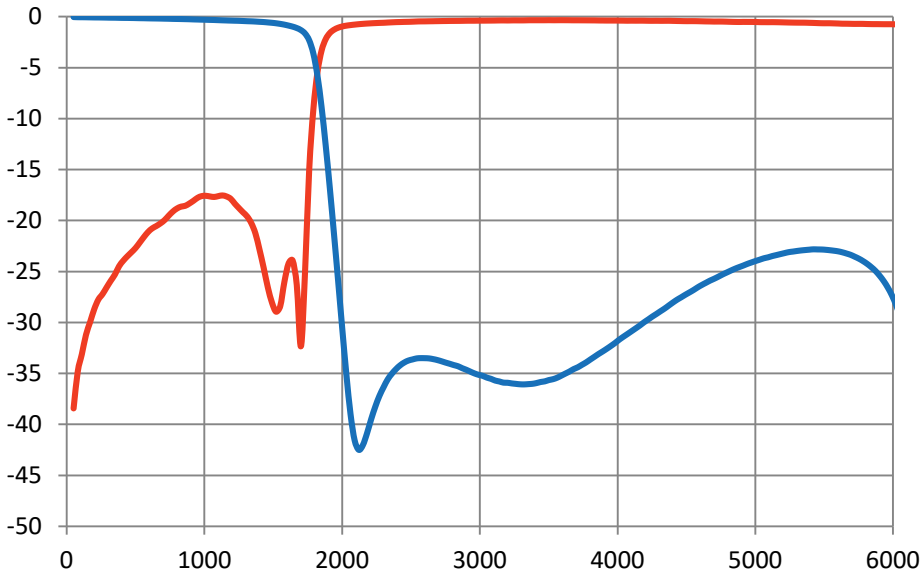

(mm)

| | |
|---|---|
| F | 1.70±0.05 |
| G | 0.78±0.05 |
| K | 1.91±0.10 |
| M | 0.54±0.025 |
| N | 1.93±0.05 |
| P | 0.21±0.04 |
| R | 1.80±0.04 |
| S | 0.20±0.04 |
| D | 0.6±0.1 |

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## ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 1500MHz | R.Loss @ 1500MHz | ATTENUATION [min.] |
|---|---|---|---|
| LP1206A1500ASTR | 0.8dB max. | -15dB | -30dB at 2000-3000MHz<br>-25dB at 3000-4000MHz<br>-20dB at 4500-6000MHz |





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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A1600ASTR – SMD Termination

### 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: 1206
- Frequency: 1600MHz
- 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

### 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:

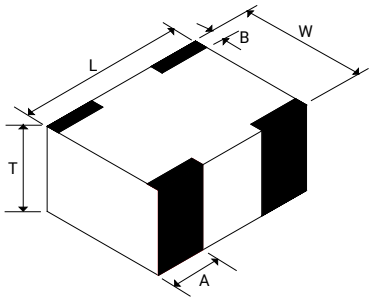
Nickel/ Lead-Free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### PART NUMBER CODE:

LP 1206 A XXXX ASTR

Frequency (MHz)

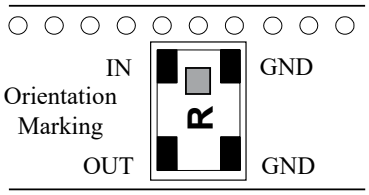
### DIMENSIONS (TOP VIEW)



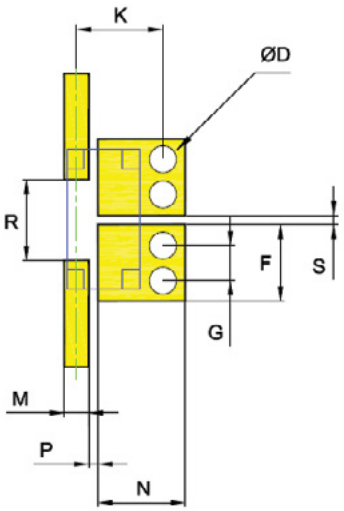

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
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| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINALS (TOP VIEW)




### RECOMMENDED PAD LAYOUT



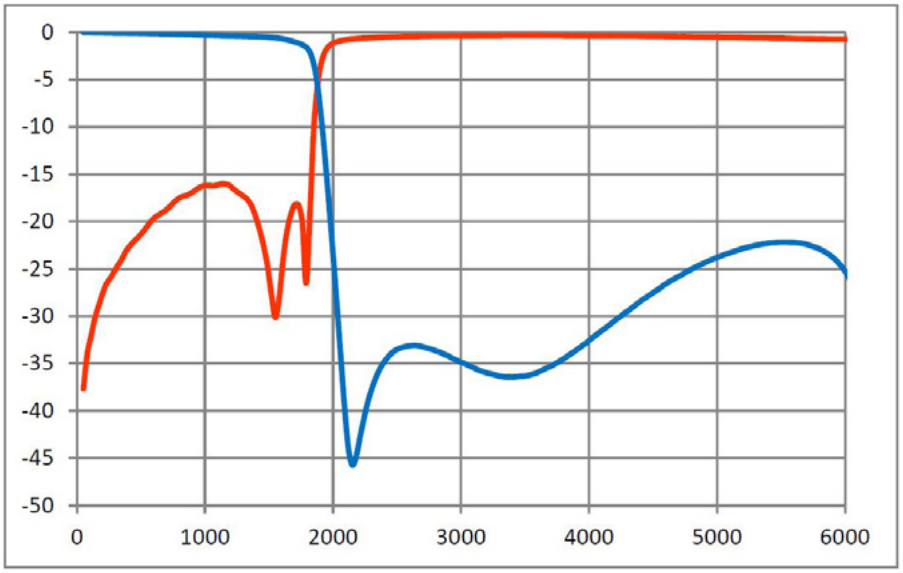

(mm)

| | |
|---|---|
| F | 1.70±0.05 |
| G | 0.78±0.05 |
| K | 1.91±0.10 |
| M | 0.54±0.025 |
| N | 1.93±0.05 |
| P | 0.21±0.04 |
| R | 1.80±0.04 |
| S | 0.20±0.04 |
| D | 0.6±0.1 |

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

## ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 1600MHz | R.Loss @ 1600MHz | ATTENUATION [min.] |
|---|---|---|---|
| LP1206A1600ASTR | 0.8dB max. | -15dB | -30dB at 2200-4000MHz<br>-20dB at 4001-6000MHz |





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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A2000ASTR – SMD Termination

### 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: 1206
- Frequency: 2000MHz
- 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

### 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:

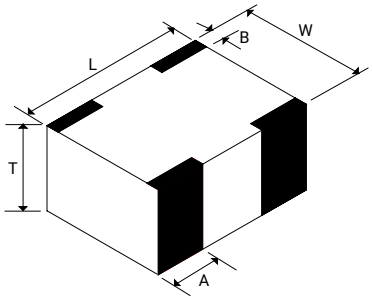
Nickel/ Lead-Free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

### PART NUMBER CODE:

LP 1206 A XXXX ASTR

Frequency (MHz)

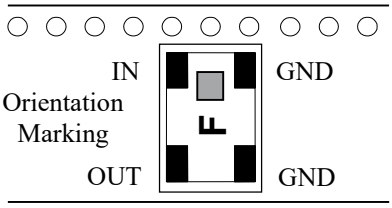
### DIMENSIONS (TOP VIEW)



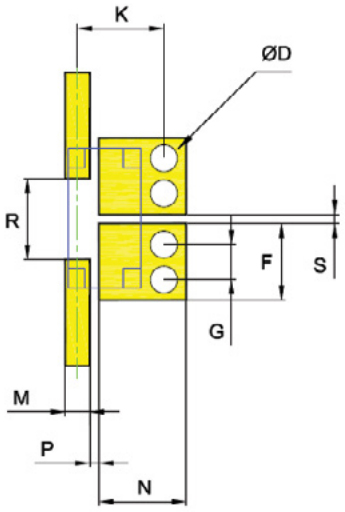

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINALS (TOP VIEW)




### RECOMMENDED PAD LAYOUT



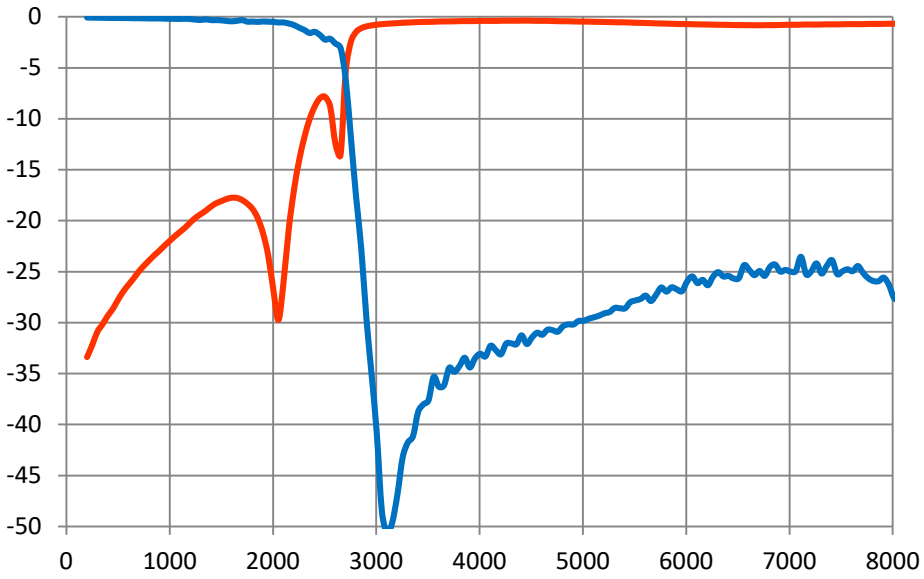

(mm)

| | |
|---|---|
| F | 1.70±0.05 |
| G | 0.78±0.05 |
| K | 1.91±0.10 |
| M | 0.54±0.025 |
| N | 1.93±0.05 |
| P | 0.21±0.04 |
| R | 1.80±0.04 |
| S | 0.20±0.04 |
| D | 0.6±0.1 |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 2000MHz | R.Loss @ 2000MHz | ATTENUATION [min.] |
|---|---|---|---|
| LP1206A2000ASTR | 0.7dB max. | -15dB | -27dB at 3000-4000MHz<br>-25dB at 4000-6000MHz<br>-20dB at 6000-8000MHz |






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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A2500ASTR – SMD Termination

### 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: 1206
- Frequency: 2500MHz
- 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

### 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.

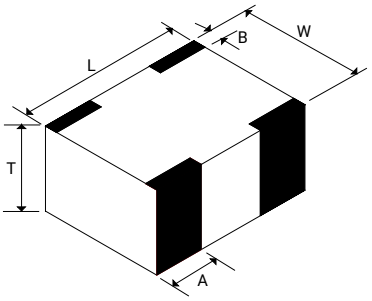
### PART NUMBER CODE:

LP 1206 A XXXX ASTR

Frequency (MHz)

### DIMENSIONS

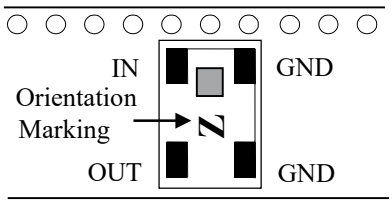
#### (TOP VIEW)



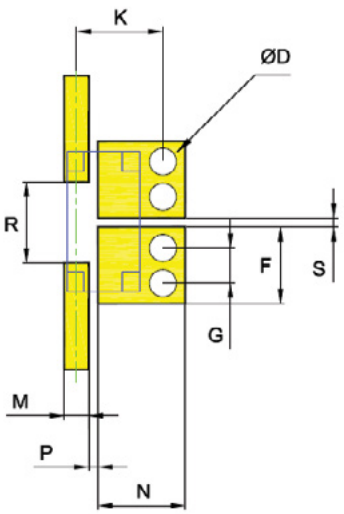

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINALS AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT



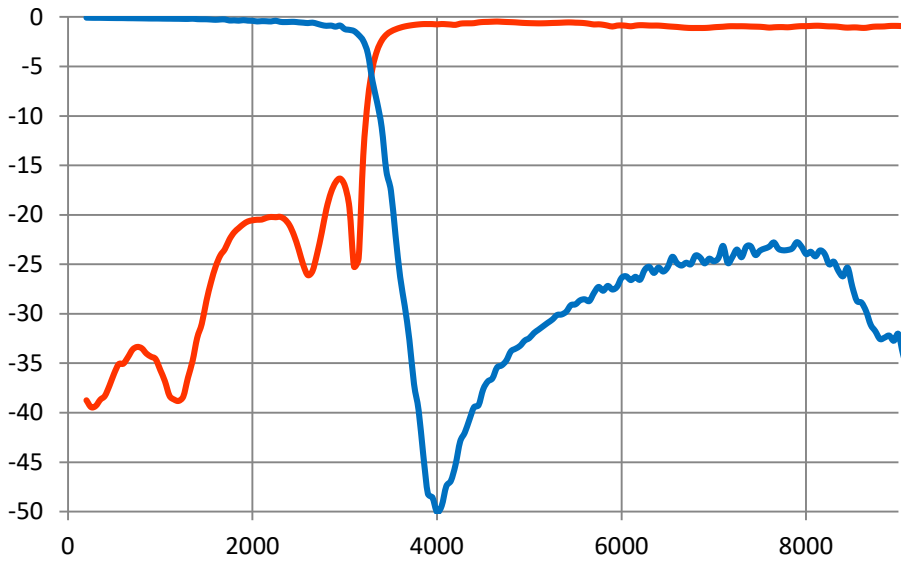

(mm)

| | |
|---|---|
| F | 1.70±0.05 |
| G | 0.78±0.05 |
| K | 1.91±0.10 |
| M | 0.54±0.025 |
| N | 1.93±0.05 |
| P | 0.21±0.04 |
| R | 1.80±0.04 |
| S | 0.20±0.04 |
| D | 0.6±0.1 |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 2500MHz | R.Loss @ 2500MHz | ATTENUATION [min.] |
|---|---|---|---|
| LP1206A2500ASTR | 0.7dB max. | -15dB | -25dB at 4000-5000MHz<br>-22dB at 5000-7500MHz<br>-15dB at 7500-8500MHz |






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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A2600ASTR – SMD Termination

### 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: 1206
- Frequency: 2600MHz
- 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

### 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.

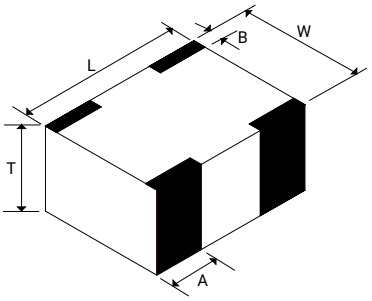
### PART NUMBER CODE:

LP 1206 A XXXX ASTR

Frequency (MHz)

### DIMENSIONS

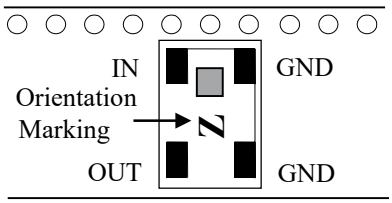
#### (TOP VIEW)



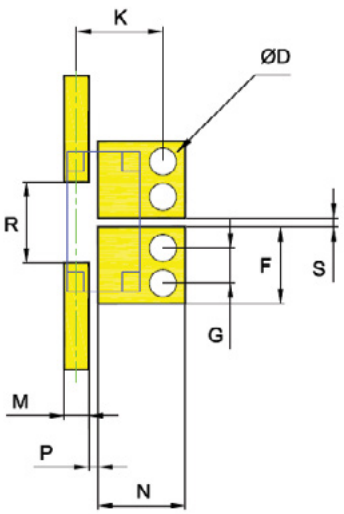

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINALS AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT



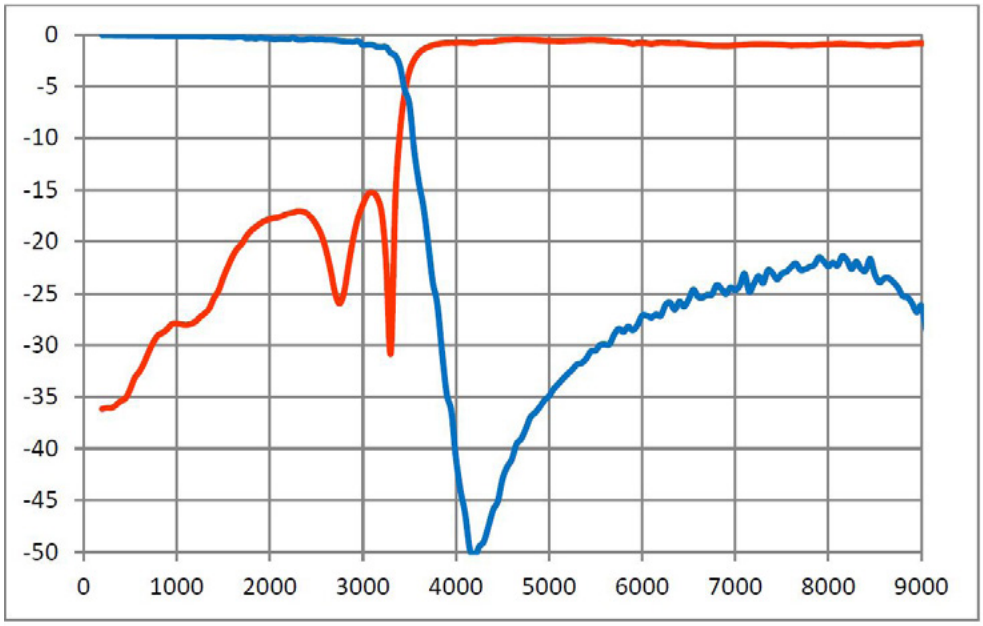

(mm)

| | |
|---|---|
| F | 1.70±0.05 |
| G | 0.78±0.05 |
| K | 1.91±0.10 |
| M | 0.54±0.025 |
| N | 1.93±0.05 |
| P | 0.21±0.04 |
| R | 1.80±0.04 |
| S | 0.20±0.04 |
| D | 0.6±0.1 |

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## ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 2600MHz | R.Loss @ 2600MHz | ATTENUATION [min.] |
|---|---|---|---|
| LP1206A2600ASTR | 0.7dB max. | -15dB | -25dB at 4000-6000MHz<br>-18dB at 6001-8000MHz |





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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A3200ASTR – SMD Termination

### 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: 1206
- Frequency: 3.2GHz
- 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

### 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

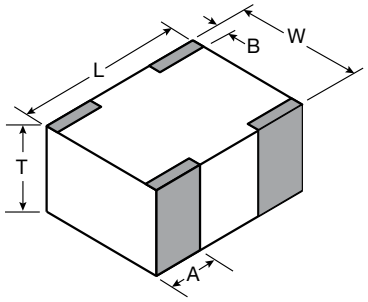
### TERMINATION

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

### HOW TO ORDER

| LP | 1206 | A | 3200 | A | S | TR |
|---|---|---|---|---|---|---|
| Series | Size | Type | Frequency (MHz) | Sub-Type | Termination | Taped & Reeled |

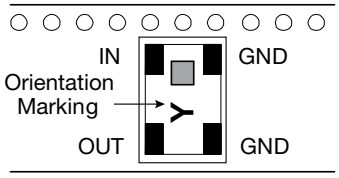
### DIMENSIONS (TOP VIEW)



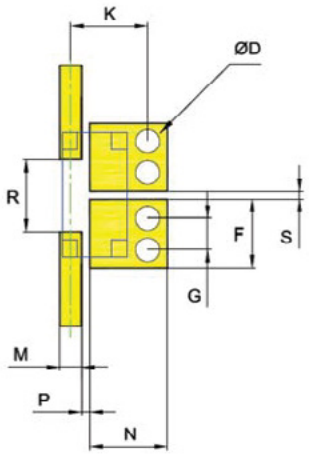

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINAL AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT




mm (inches)

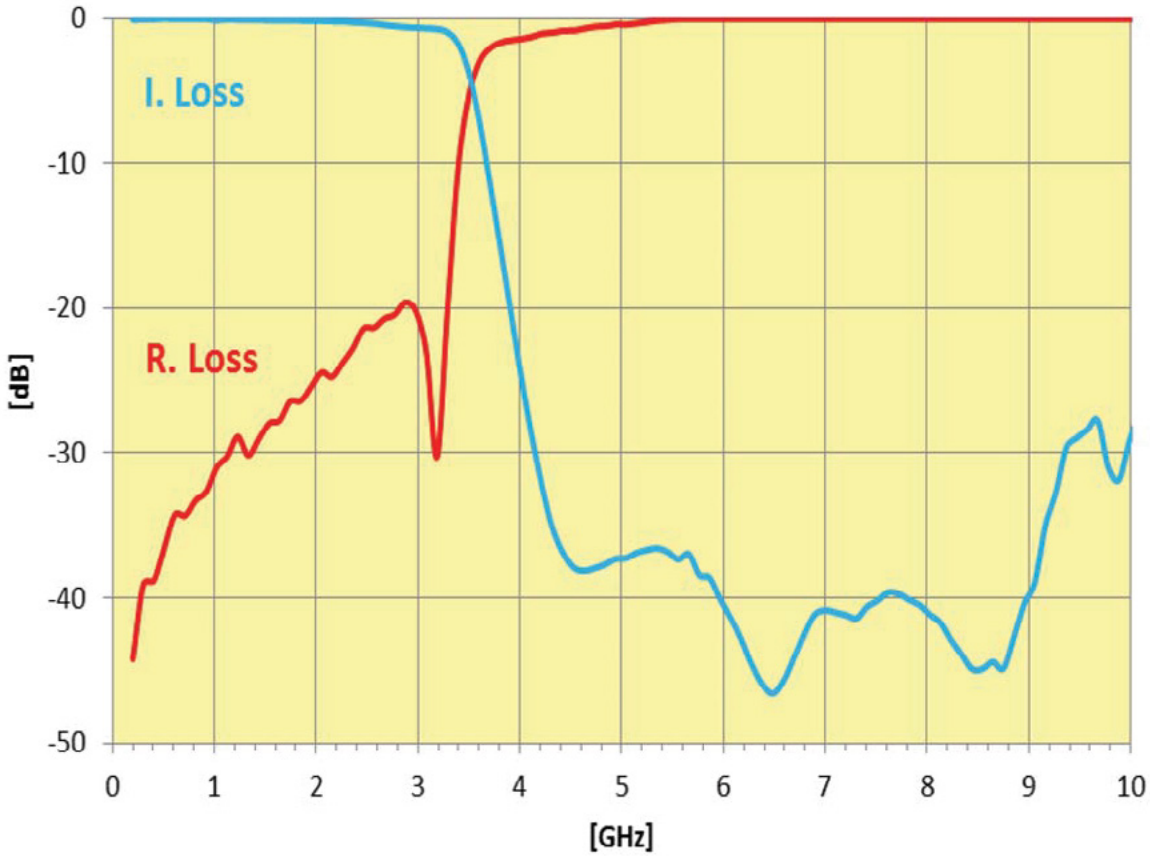
| | |
|---|---|
| F | 1.70±0.05 (0.067±0.002) |
| G | 0.78±0.05 (0.031±0.002) |
| K | 1.91±0.10 (0.075±0.004) |
| M | 0.54±0.025 (0.021±0.001) |
| N | 1.93±0.05 (0.076±0.002) |
| P | 0.21±0.04 (0.008±0.002) |
| R | 1.80±0.04 (0.071±0.002) |
| S | 0.20±0.04 (0.008±0.002) |
| D | 0.60±0.10 (0.024±0.004) |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 3.2GHz | R.Loss @ 3.2GHz | Attenuation |
|---|---|---|---|
| LP1206A3200ASTR | 0.85dB max. | -20dB | -30dB at 4.48GHz<br>-40dB at 6.4GHz<br>-25dB at 9.6GHz<br>-25dB at 10GHz |

### TYPICAL ELECTRICAL PERFORMANCE







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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A3500ASTR – SMD Termination

### 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: 1206
- Frequency: 3.5GHz
- 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

### 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

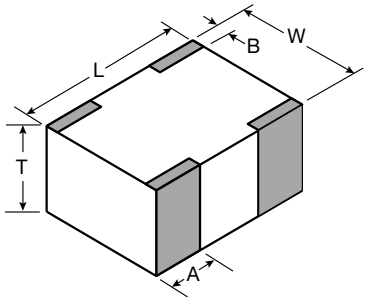
### TERMINATION

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

### HOW TO ORDER

| LP | 1206 | A | 3500 | A | S | TR |
|---|---|---|---|---|---|---|
| Series | Size | Type | Frequency (MHz) | Sub-Type | Termination | Taped & Reeled |

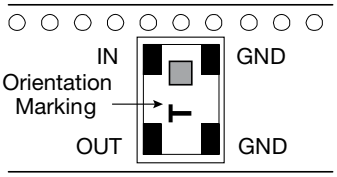
### DIMENSIONS (TOP VIEW)



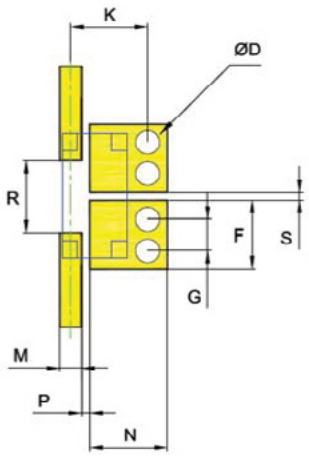

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINAL AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT




mm (inches)

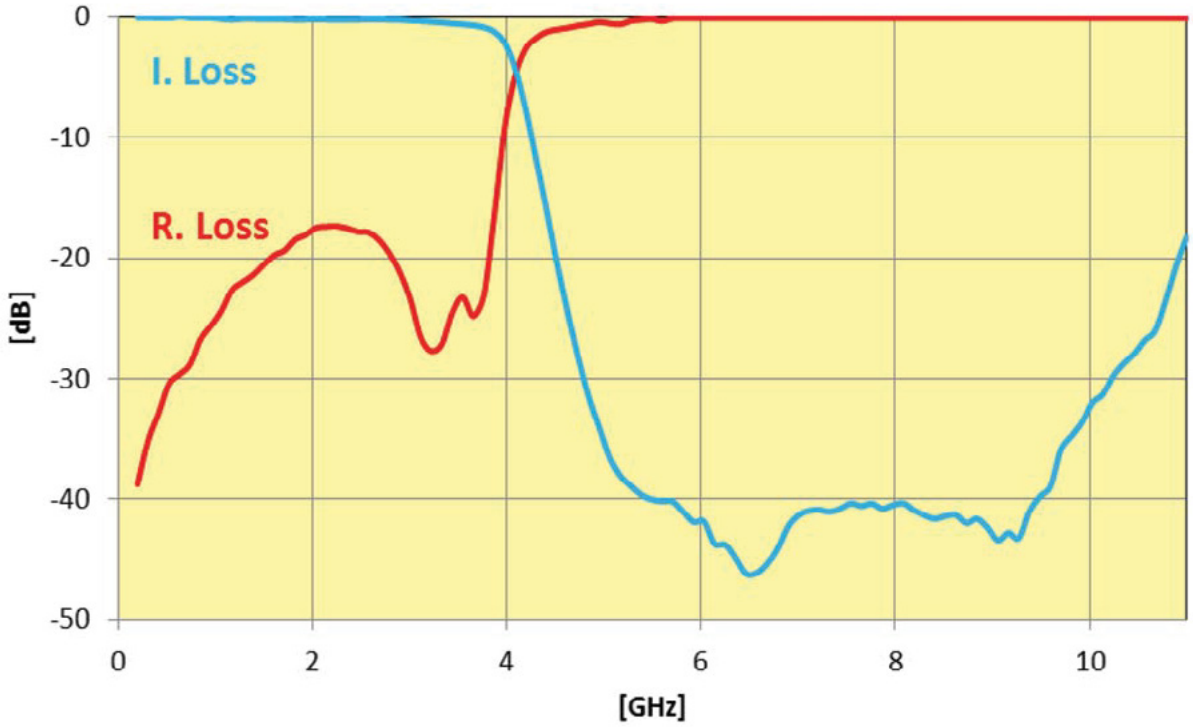
| | |
|---|---|
| F | 1.70±0.05 (0.067±0.002) |
| G | 0.78±0.05 (0.031±0.002) |
| K | 1.91±0.10 (0.075±0.004) |
| M | 0.54±0.025 (0.021±0.001) |
| N | 1.93±0.05 (0.076±0.002) |
| P | 0.21±0.04 (0.008±0.002) |
| R | 1.80±0.04 (0.071±0.002) |
| S | 0.20±0.04 (0.008±0.002) |
| D | 0.60±0.10 (0.024±0.004) |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 3.5GHz | R.Loss @ 3.5GHz | Attenuation |
|---|---|---|---|
| LP1206A3500ASTR | 0.7dB max. | -18dB | -30dB at 4.9GHz<br>-40dB at 7GHz<br>-25dB at 10.5GHz<br>-15dB at 11GHz |

### TYPICAL ELECTRICAL PERFORMANCE






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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A3600ASTR – SMD Termination

### 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: 1206
- Frequency: 3.6GHz
- 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

### 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

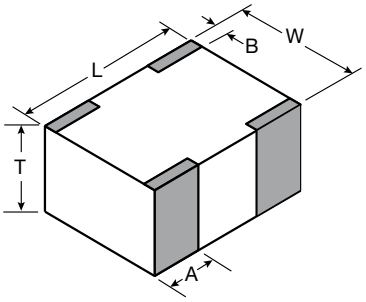
### TERMINATION

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

### HOW TO ORDER

| LP | 1206 | A | 3600 | A | S | TR |
|---|---|---|---|---|---|---|
| Series | Size | Type | Frequency (MHz) | Sub-Type | Termination | Taped & Reeled |

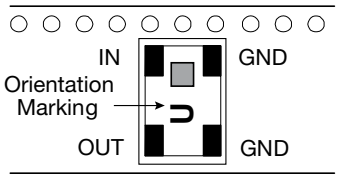
### DIMENSIONS (TOP VIEW)



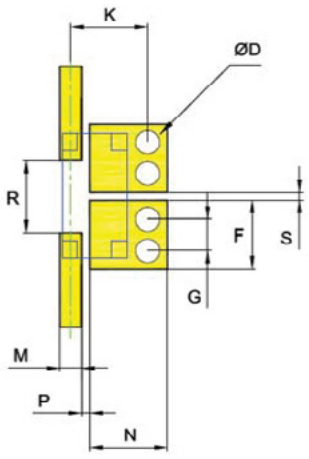

mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### TERMINAL AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT




mm (inches)

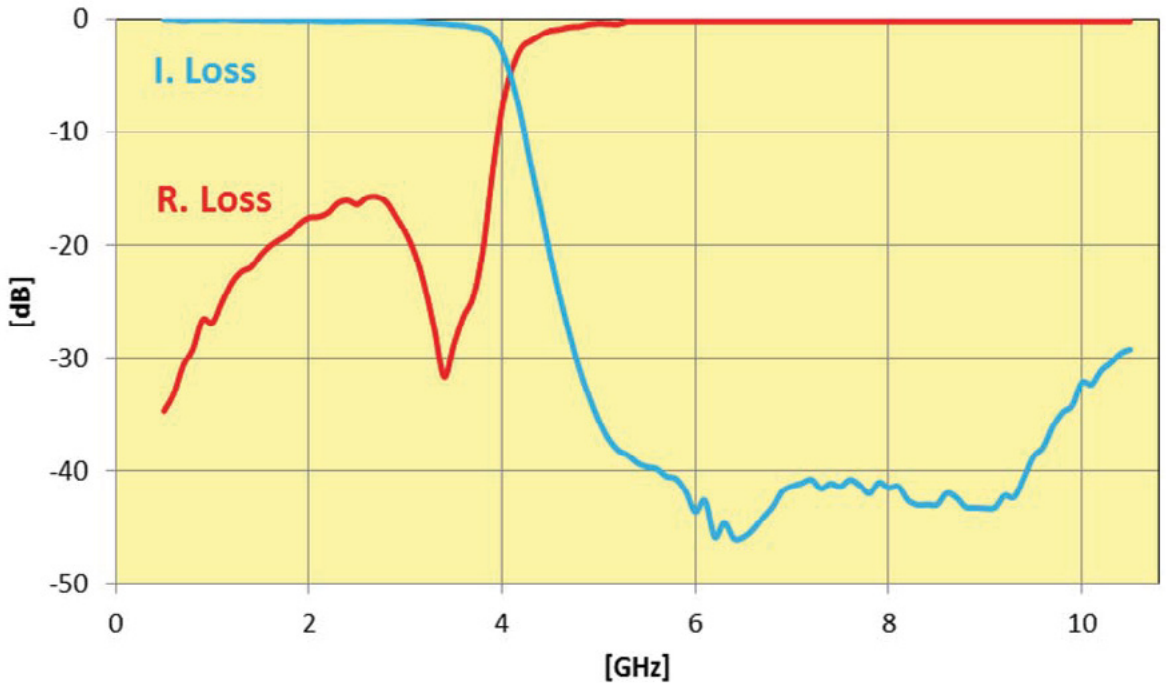
| | |
|---|---|
| F | 1.70±0.05 (0.067±0.002) |
| G | 0.78±0.05 (0.031±0.002) |
| K | 1.91±0.10 (0.075±0.004) |
| M | 0.54±0.025 (0.021±0.001) |
| N | 1.93±0.05 (0.076±0.002) |
| P | 0.21±0.04 (0.008±0.002) |
| R | 1.80±0.04 (0.071±0.002) |
| S | 0.20±0.04 (0.008±0.002) |
| D | 0.60±0.10 (0.024±0.004) |

The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at www.kyocera-avx.com/disclaimer/ by reference and should be reviewed in full before placing any order.

### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 3.6GHz | R.Loss @ 3.6GHz | Attenuation |
|---|---|---|---|
| LP1206A3600ASTR | 0.7dB max. | -25dB | -30dB at 5.04GHz<br>-35dB at 7.2GHz<br>-25dB at 10.8GHz |

### TYPICAL ELECTRICAL PERFORMANCE



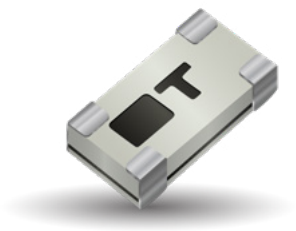



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# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 8W

## LP1206A3800ASTR – SMD Termination



### 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: 1206
- Frequency: 3.8GHz
- Sharp attenuation slope
- Characteristic impedance: 50Ohm
- Operating/Storage temp: -40°C – +85°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

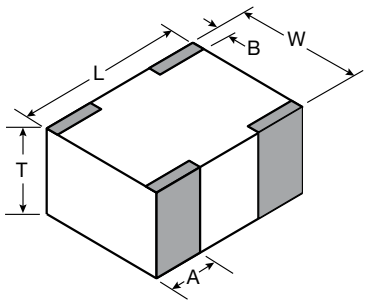
### APPLICATIONS

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

### HOW TO ORDER

| LP | 1206 | A | 3800 | A | S | TR |
|---|---|---|---|---|---|---|
| Series | Size | Type | Frequency (MHz) | Sub-Type | Termination | Taped & Reeled |

### DIMENSIONS (TOP VIEW)




mm (inches)

| | |
|---|---|
| L | 3.08±0.1 (0.121±0.004) |
| W | 1.60±0.1 (0.063±0.004) |
| T | 0.87±0.1 (0.034±0.004) |
| A | 0.61±0.25 (0.028±0.010) |
| B | 0.35±0.15 (0.014±0.006) |

### FINAL QUALITY INSPECTION

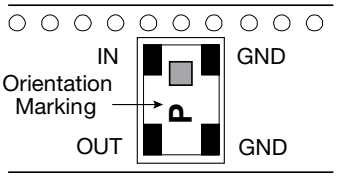
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

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

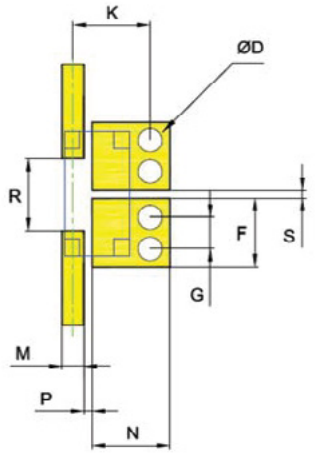
### TERMINATION

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

### TERMINAL AND LAYOUT (TOP VIEW)




### RECOMMENDED PAD LAYOUT




mm

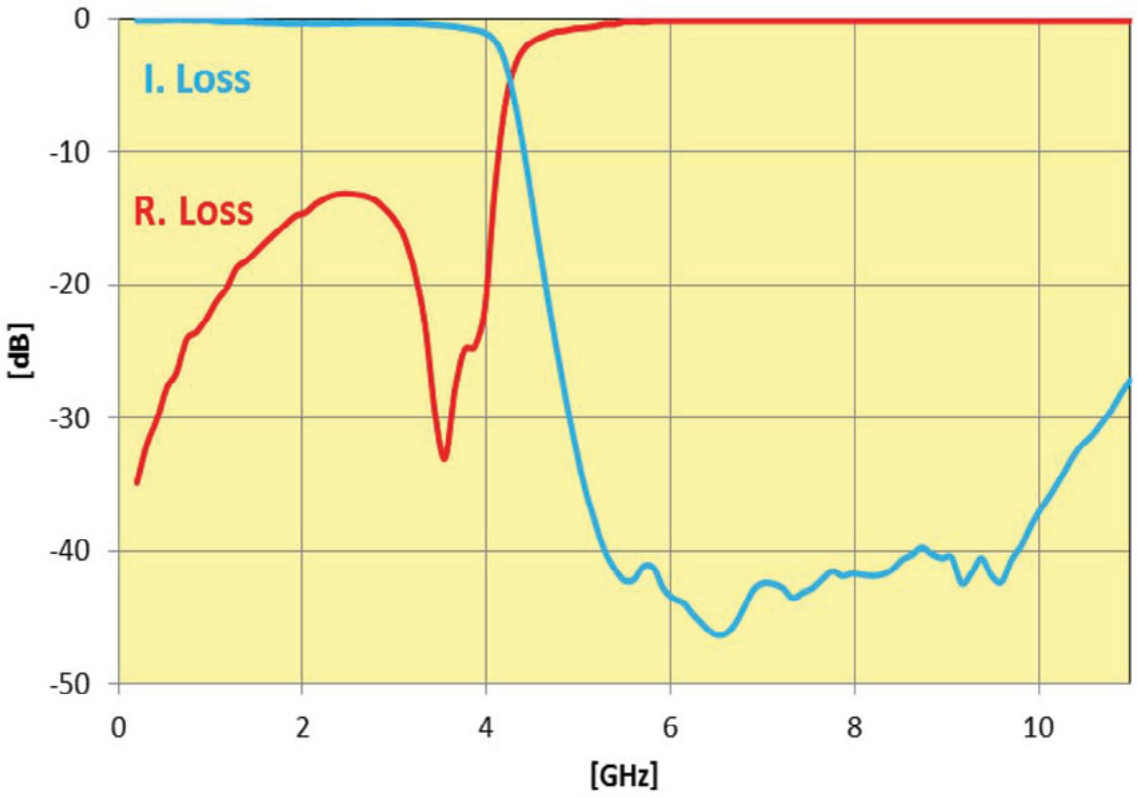
| | |
|---|---|
| F | 1.70±0.05 (0.067±0.002) |
| G | 0.78±0.05 (0.031±0.002) |
| K | 1.91±0.10 (0.075±0.004) |
| M | 0.54±0.025 (0.021±0.001) |
| N | 1.93±0.05 (0.076±0.002) |
| P | 0.21±0.04 (0.008±0.002) |
| R | 1.80±0.04 (0.071±0.002) |
| S | 0.20±0.04 (0.008±0.002) |
| D | 0.60±0.10 (0.024±0.004) |

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### ELECTRICAL CHARACTERISTICS

| P/N | I.Loss @ 3.6GHz | R.Loss @ 3.6GHz | Attenuation |
|---|---|---|---|
| LP1206A3800ASTR | 0.8dB max. | -20dB | -35dB at 5.32GHz<br>-28dB at 7.6GHz<br>-33dB at 10GHz |

### TYPICAL ELECTRICAL PERFORMANCE






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