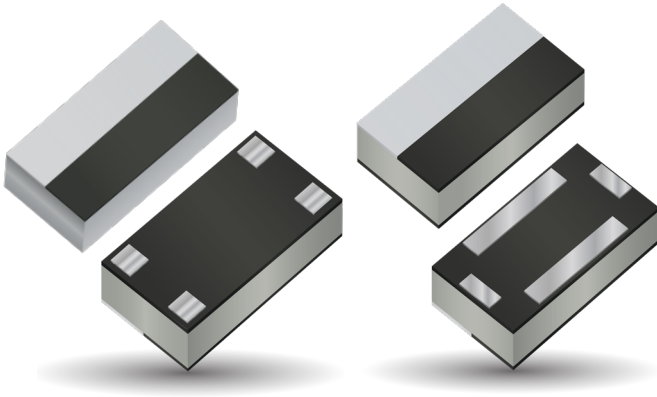


# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

### General Information



#### ITF TECHNOLOGY

The ITF LGA 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: 480-6000MHz
- Characteristic impedance: 50Ω
- Operating/Storage temp: -40°C to +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

#### APPLICATIONS

- Base Station
- 5G & 6G / UWB
- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's

#### HOW TO ORDER

|        |      |      |               |          |             |                |
|--------|------|------|---------------|----------|-------------|----------------|
| LP     | 1206 | A    | XXXX          | B        | N           | 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.

#### ELECTRICAL SPECIFICATION

| Part Number     | Fc [MHz] | I.L [dB] @Fc | VSWR @Fc | Rejection [dB]         | Rejection [dB]          |
|-----------------|----------|--------------|----------|------------------------|-------------------------|
| LP1206A0480ANTR | 480      | -1.2         | 1 : 1.5  | -35 @ 700 – 2500 MHz   | ---                     |
| LP1206A0512BNTR | 512      | -0.8         | 1 : 2.3  | -35 @ 720 - 2000 MHz   | ----                    |
| LP1206A0512CNTR | 512      | -1.5         | 1 : 1.5  | -40 @ 678              | -30 @ 700 -2500 MHz     |
| LP1206A0600ANTR | 600      | -0.8         | 1 : 1.22 | -40 @ 900 – 3100 MHz   | ---                     |
| LP1206A0700ANTR | 700      | -0.9         | 1 : 2.3  | -35 @ 1000 – 2000 MHz  | ----                    |
| LP1206A0720ANTR | 720      | -1.2         | 1 : 1.78 | -15 @ 875 MHz          | -30 @ 1000 - 2500       |
| LP1206A2000ANTR | 2000     | -0.7         | 1 : 1.66 | -35 @ 4000 – 8000 MHz  | ----                    |
| LP1206A2500ANTR | 2500     | -0.7         | 1 : 1.66 | -35 @ 5000 – 10000 MHz | -30 @ 10000 – 11000 MHz |
| LP1206A2700ANTR | 2700     | -0.7         | 1 : 1.66 | -35 @ 5400 – 10000 MHz | -30 @ 10000 – 11500 MHz |
| LP1206A3000ANTR | 3000     | -0.7         | 1 : 1.66 | -40 @ 6000 - 9000 MHz  | -30 @ 9000 – 12000 MHz  |
| LP1206A3200ANTR | 3200     | -0.7         | 1 : 1.66 | -38 @ 6400 - 10000 MHz | -30 @ 10000 – 12800 MHz |
| LP1206A3300ANTR | 3300     | -0.7         | 1 : 1.66 | -35 @ 6600 - 10000 MHz | -28 @ 10000 – 15000 MHz |
| LP1206A3400ANTR | 3400     | -0.3         | 1 : 1.22 | -35 @ 8700 - 10500 MHz | ----                    |
| LP1206A3500ANTR | 3500     | -0.7         | 1 : 1.66 | -36 @ 6000 - 10500 MHz | -27 @ 10500 – 15000 MHz |
| LP1206A4200ANTR | 4200     | -0.5         | 1 : 1.66 | -30 @ 6600 - 17000 MHz | ----                    |
| LP1206A5000ANTR | 5000     | -0.7         | 1 : 1.43 | -35 @ 9000 - 14000 MHz | -25 @ 14000 – 20000 MHz |
| LP1206A5200ANTR | 5200     | -0.7         | 1 : 1.43 | -35 @ 9000 - 14000 MHz | -25 @ 14000 – 20000 MHz |
| LP1206A5500ANTR | 5500     | -0.7         | 1 : 1.43 | -30 @ 9000 - 14000 MHz | -25 @ 14000 – 20000 MHz |
| LP1206A6000ANTR | 6000     | -0.6         | 1 : 1.22 | -35 @ 8400 - 18000 MHz | ---                     |

Click part number to see full specifications

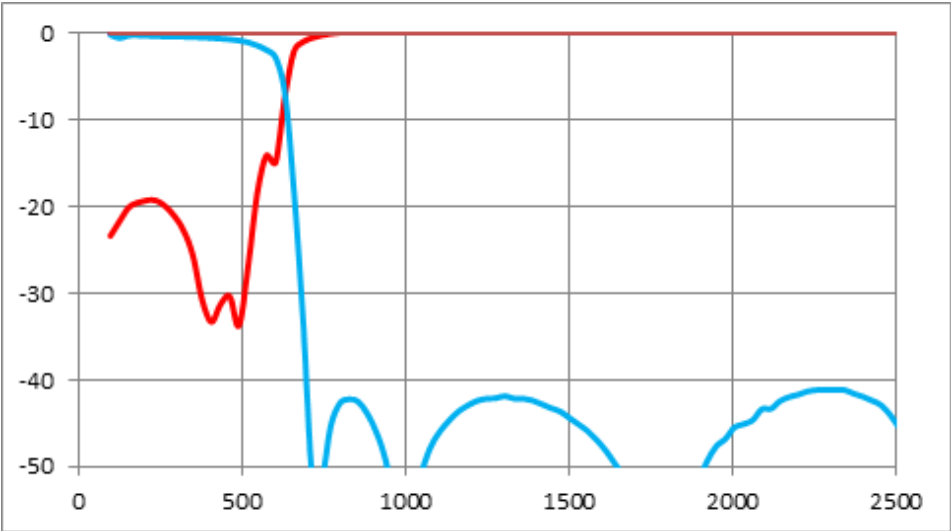
Thin-Film RF/Microwave Filters  
1206 High Performance Low Pass 12W  
LP1206A0480ANTR – LGA Termination



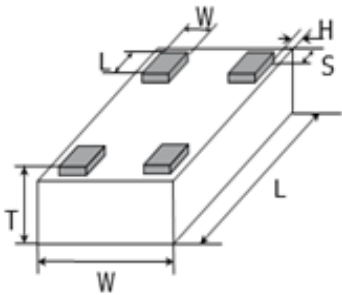
TYPICAL ELECTRICAL PERFORMANCE

| Parameter       | Value      | Unit | Notes                   |
|-----------------|------------|------|-------------------------|
| Fc              | 480        | MHz  |                         |
| Insertion Loss  | -1.2       | dB   | Max.                    |
| VSWR            | 1.5:1      |      | Max. (all ports)        |
| Rejection       | -35        | dB   | Min. (700MHz to 2.5GHz) |
| Power Handling  | 12         | W    | Continuous              |
| Impedance       | 50         | Ohm  |                         |
| Operating Temp. | -40 to +85 | °C   |                         |
| Size            | 1206       |      |                         |

Click here to return to main table.

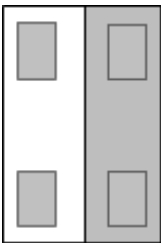


DIMENSIONS (BOTTOM VIEW)

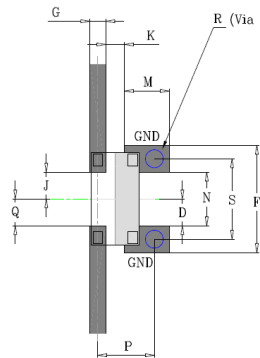


| mm (inches) |                            |
|-------------|----------------------------|
| L           | 3.10±0.10<br>(0.122±0.004) |
| W           | 1.60±0.10<br>(0.063±0.004) |
| T           | 0.60±0.30<br>(0.024±0.012) |
| A           | 0.39±0.10<br>0.015±0.004   |
| B           | 0.33±0.10<br>0.013±0.004   |
| H, S        | 0.05±0.05<br>(0.002±0.002) |

RECOMMENDED PAD LAYOUT AND TERMINALS (TOP VIEW)



Orientation  
Marking



Dimensions: millimeters

|   |            |
|---|------------|
| R | 0.6 (pl)   |
| G | 0.54±0.025 |
| K | 0.63±0.04  |
| N | 1.8±0.04   |
| M | 1.5±0.05   |
| S | 2.7±0.05   |
| F | 3.6±0.05   |
| P | 1.9±0.1    |
| D | 0.9±0.04   |
| Q | 0.9±0.04   |
| J | 0.9±0.04   |

\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
\*\* PCB : Taconic Orer RF-35P

EVN P/N: 544-7075

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

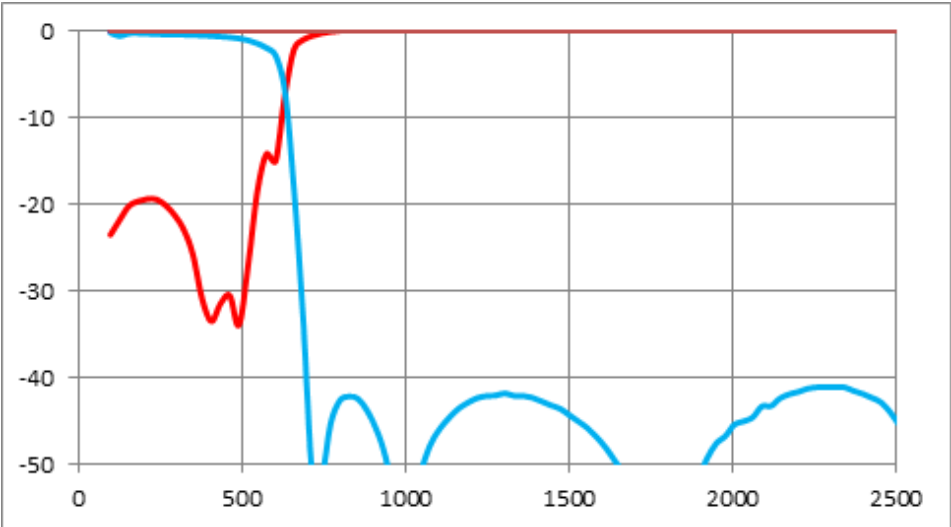
### LP1206A0512BNTR – LGA Termination



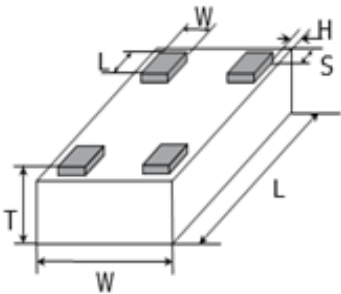
#### TYPICAL ELECTRICAL PERFORMANCE

| Parameter          | Value      | Unit | Notes                 |
|--------------------|------------|------|-----------------------|
| Fc                 | 512        | MHz  |                       |
| Insertion Loss     | -0.8       | dB   | Max.                  |
| VSWR               | 2.3: 1     |      | Max. (all ports)      |
| Rejection @ 900MHz | -35        | dB   | Min. (720MHz to 2GHz) |
| Power Handling     | 12         | W    | Continuous            |
| Impedance          | 50         | Ohm  |                       |
| Operating Temp.    | -40 to +85 | °C   |                       |
| Size               | 1206       |      |                       |

Click here to return to main table.

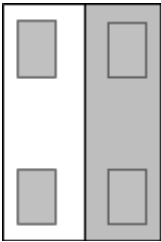


#### DIMENSIONS (BOTTOM VIEW)

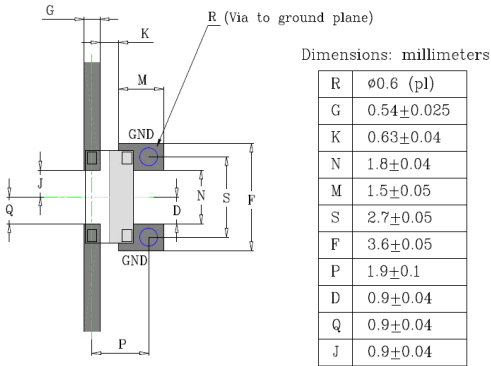


| mm (inches) |                            |
|-------------|----------------------------|
| L           | 3.10±0.10<br>(0.122±0.004) |
| W           | 1.60±0.10<br>(0.063±0.004) |
| T           | 0.60±0.30<br>(0.024±0.012) |
| A           | 0.39±0.10<br>0.015±0.004   |
| B           | 0.33±0.10<br>0.013±0.004   |
| H, S        | 0.05±0.05<br>(0.002±0.002) |

#### RECOMMENDED PAD LAYOUT AND TERMINALS (TOP VIEW)



Orientation Marking



\*The recommended distance to the ground plane is 0.254mm ( 0.01" )  
 \*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7075

# Thin-Film RF/Microwave Filters

## 1206 Harmonic Low Pass Filter

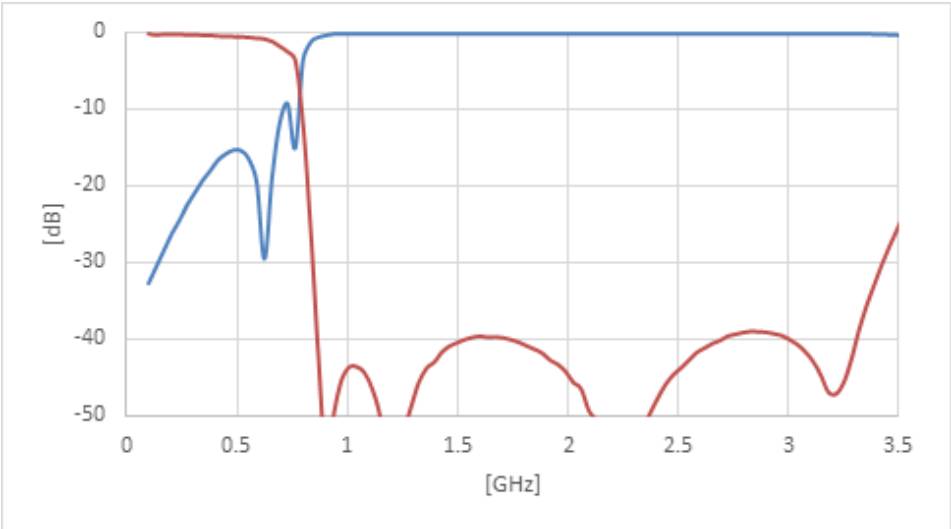
### LP1206A0512CNTR – LGA Termination



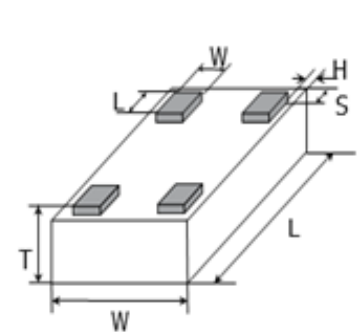
#### TYPICAL ELECTRICAL PERFORMANCE

| Parameter                  | Value      | Unit | Notes            |
|----------------------------|------------|------|------------------|
| Fc                         | 512        | MHz  |                  |
| Insertion Loss             | -1.5       | dB   | Max.             |
| VSWR                       | 2.3: 1     |      | Max. (all ports) |
| Rejection @ 678MHz         | -40        | dB   | Min.             |
| Rejection @ 700 - 2500 MHz | -35        | dB   |                  |
| Power Handling             | 12         | W    | Continuous       |
| Impedance                  | 50         | Ohm  |                  |
| Operating Temp.            | -40 to +85 | °C   |                  |
| Size                       | 1206       |      |                  |

Click here to return to main table.

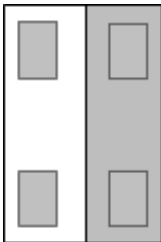


#### DIMENSIONS (BOTTOM VIEW)

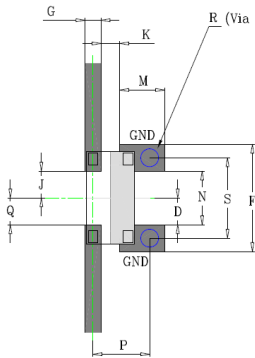


| mm (inches) |                            |
|-------------|----------------------------|
| L           | 3.10±0.10<br>(0.122±0.004) |
| W           | 1.60±0.10<br>(0.063±0.004) |
| T           | 0.60±0.30<br>(0.024±0.012) |
| A           | 0.39±0.10<br>0.015±0.004   |
| B           | 0.33±0.10<br>0.013±0.004   |
| H, S        | 0.05±0.05<br>(0.002±0.002) |

#### RECOMMENDED PAD LAYOUT AND TERMINALS (TOP VIEW)



Orientation Marking



Dimensions: millimeters

|   |            |
|---|------------|
| R | ø0.6 (p1)  |
| G | 0.54±0.025 |
| K | 0.63±0.04  |
| N | 1.8±0.04   |
| M | 1.5±0.05   |
| S | 2.7±0.05   |
| F | 3.6±0.05   |
| P | 1.9±0.1    |
| D | 0.9±0.04   |
| Q | 0.9±0.04   |
| J | 0.9±0.04   |

\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orceer RF-35P

EVB P/N: 544-7075

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

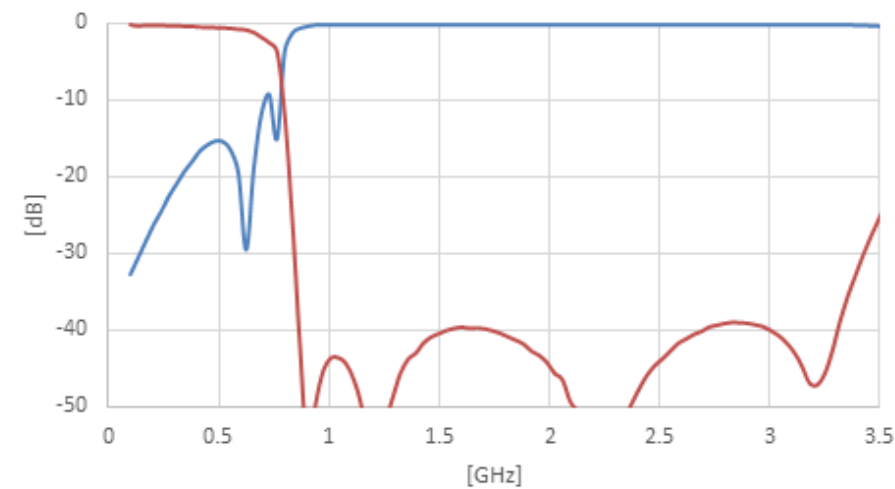
### LP1206A0600ANTR – LGA Termination



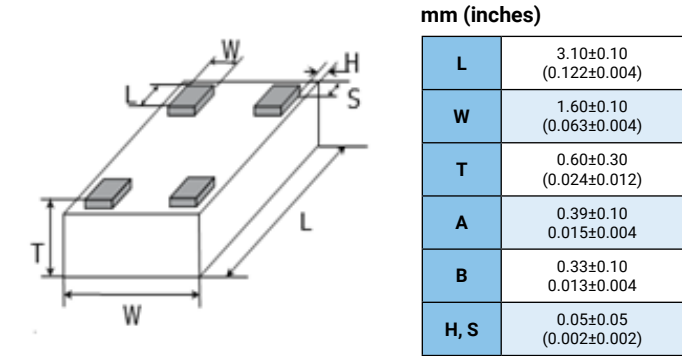
#### TYPICAL ELECTRICAL PERFORMANCE

| Parameter       | Value      | Unit | Notes                 |
|-----------------|------------|------|-----------------------|
| Fc              | 600        | MHz  |                       |
| Insertion Loss  | -0.8       | dB   | Max.                  |
| VSWR            | 1.22: 1    |      | Max. (all ports)      |
| Rejection       | -40        | dB   | Typ. (900MHz to 3GHz) |
| Power Handling  | 12         | W    | Continuous            |
| Impedance       | 50         | Ohm  |                       |
| Operating Temp. | -40 to +85 | °C   |                       |
| Size            | 1206       |      |                       |

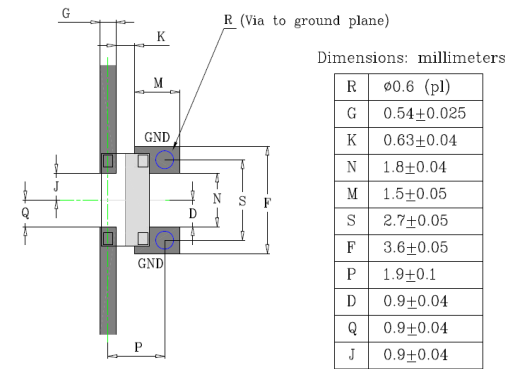
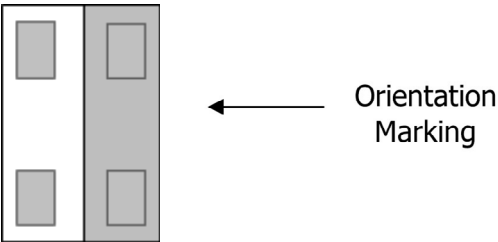
Click here to return to main table.



#### DIMENSIONS (BOTTOM VIEW)



#### RECOMMENDED PAD LAYOUT AND TERMINALS (TOP VIEW)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7075

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

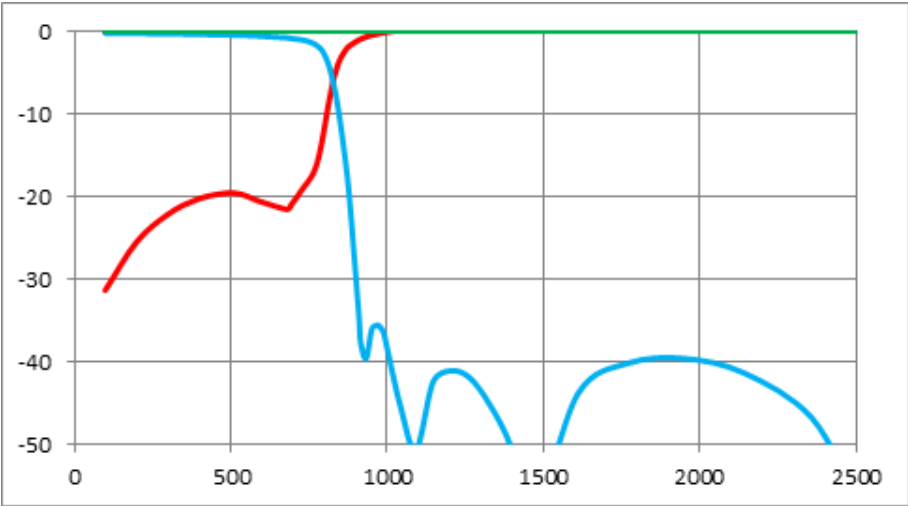
### LP1206A0700ANTR – LGA Termination



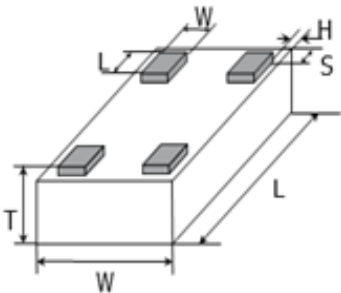
#### TYPICAL ELECTRICAL PERFORMANCE

| Parameter        | Value      | Unit | Notes               |
|------------------|------------|------|---------------------|
| Fc               | 700        | MHz  |                     |
| Rejection @ 1GHz | -35        | dB   | Min. (1GHz to 2GHz) |
| Insertion Loss   | 0.9        | dB   | Max.                |
| VSWR             | 2.3: 1     |      | Max. (all ports)    |
| Power Handling   | 12         | W    | Continuous          |
| Impedance        | 50         | Ohm  |                     |
| Operating Temp.  | -40 to +85 | °C   |                     |
| Size             | 1206       |      |                     |

Click here to return to main table.

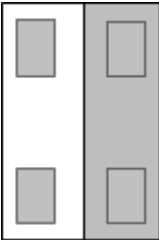


#### DIMENSIONS (BOTTOM VIEW)

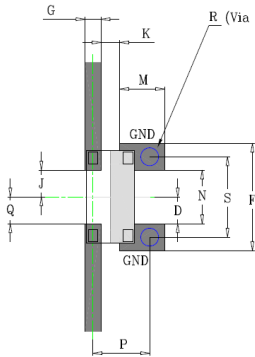


| mm (inches) |                            |
|-------------|----------------------------|
| L           | 3.10±0.10<br>(0.122±0.004) |
| W           | 1.60±0.10<br>(0.063±0.004) |
| T           | 0.60±0.30<br>(0.024±0.012) |
| A           | 0.39±0.10<br>0.015±0.004   |
| B           | 0.33±0.10<br>0.013±0.004   |
| H, S        | 0.05±0.05<br>(0.002±0.002) |

#### RECOMMENDED PAD LAYOUT AND TERMINALS (TOP VIEW)



Orientation  
Marking



Dimensions: millimeters

|   |            |
|---|------------|
| R | Ø0.6 (p1)  |
| G | 0.54±0.025 |
| K | 0.63±0.04  |
| N | 1.8±0.04   |
| M | 1.5±0.05   |
| S | 2.7±0.05   |
| F | 3.6±0.05   |
| P | 1.9±0.1    |
| D | 0.9±0.04   |
| Q | 0.9±0.04   |
| J | 0.9±0.04   |

\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orer RF-35P

EVB P/N: 544-7075

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

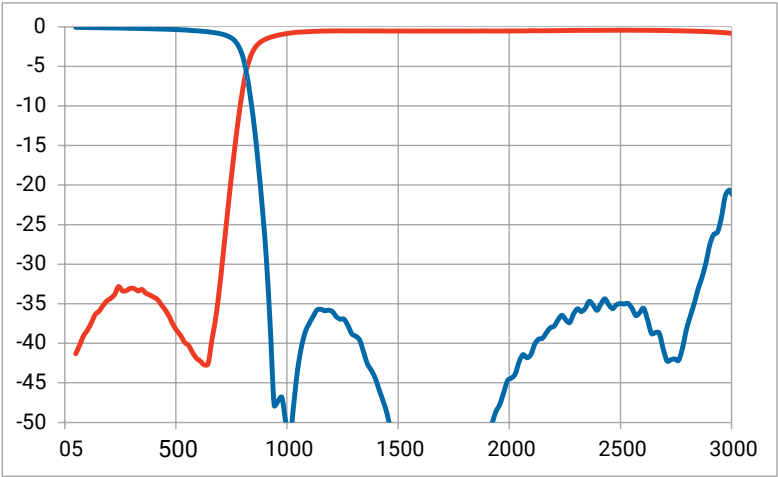
### LP1206A0720ANTR – LGA Termination



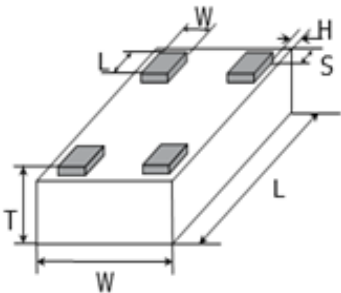
#### TYPICAL ELECTRICAL PERFORMANCE

| Parameter       | Value      | Unit | Notes                    |
|-----------------|------------|------|--------------------------|
| Fc              | 720        | MHz  |                          |
| Insertion Loss  | -1.2       | dB   | Max.                     |
| VSWR            | 1.49 : 1   |      | Max. (all ports)         |
| Rejection       | -15        | dB   | Typ. (875 MHz to 2.5GHz) |
| Power Handling  | 12         | W    | Continuous               |
| Impedance       | 50         | Ohm  |                          |
| Operating Temp. | -40 to +85 | °C   |                          |
| Size            | 1206       |      |                          |

Click here to return to main table.

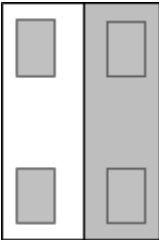


#### DIMENSIONS (BOTTOM VIEW)

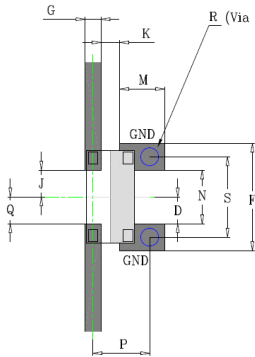


| mm (inches) |                            |
|-------------|----------------------------|
| L           | 3.10±0.10<br>(0.122±0.004) |
| W           | 1.60±0.10<br>(0.063±0.004) |
| T           | 0.60±0.30<br>(0.024±0.012) |
| A           | 0.39±0.10<br>0.015±0.004   |
| B           | 0.33±0.10<br>0.013±0.004   |
| H, S        | 0.05±0.05<br>(0.002±0.002) |

#### RECOMMENDED PAD LAYOUT AND TERMINALS (TOP VIEW)



Orientation  
Marking



Dimensions: millimeters

|   |            |
|---|------------|
| R | Ø0.6 (pl)  |
| G | 0.54±0.025 |
| K | 0.63±0.04  |
| N | 1.8±0.04   |
| M | 1.5±0.05   |
| S | 2.7±0.05   |
| F | 3.6±0.05   |
| P | 1.9±0.1    |
| D | 0.9±0.04   |
| Q | 0.9±0.04   |
| J | 0.9±0.04   |

\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orer RF-35P

EVB P/N: 544-7075

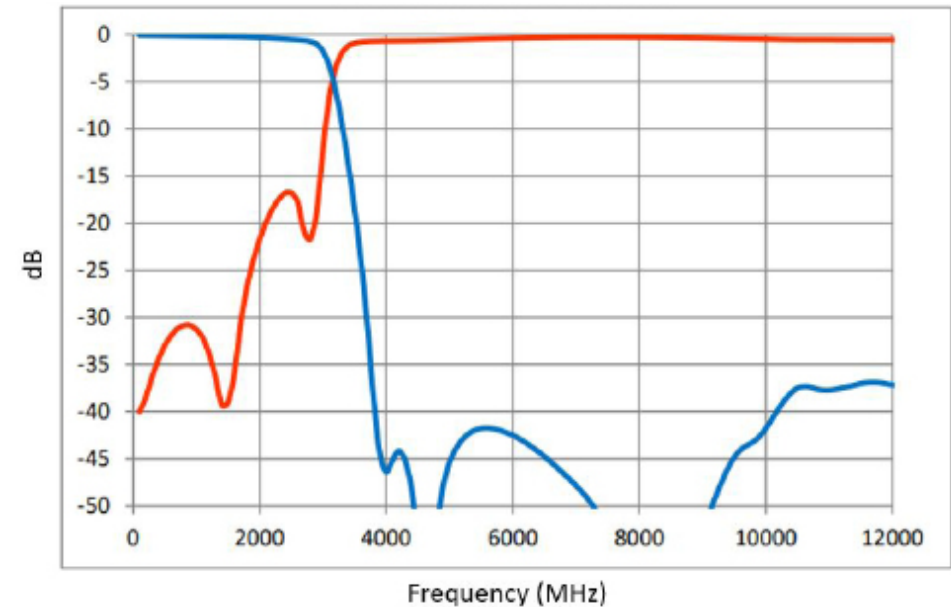
Thin-Film RF/Microwave Filters  
High Performance Low Pass Filters  
LP1206A2000ANTR – LGA Termination



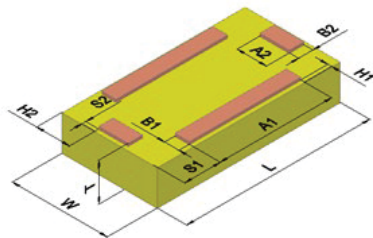
TYPICAL ELECTRICAL PERFORMANCE

| Parameter       | Value      | Unit | Notes                |
|-----------------|------------|------|----------------------|
| Fc              | 2000       | MHz  |                      |
| Insertion Loss  | -0.7       | dB   | Max.                 |
| VSWR            | 1.66 : 1   |      | Max. (all ports)     |
| Rejection       | -35        | dB   | Typ. (4.0 – 8.0 GHz) |
| Power Handling  | 12         | W    | Continuous           |
| Impedance       | 50         | Ohm  |                      |
| Operating Temp. | -40 to +85 | °C   |                      |
| Size            | 1206       |      |                      |

Click here to return to main table.

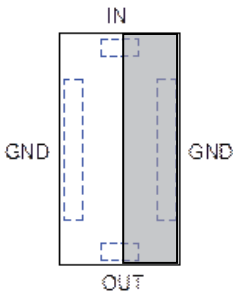


DIMENSIONS: mm (inches)  
(Bottom View)

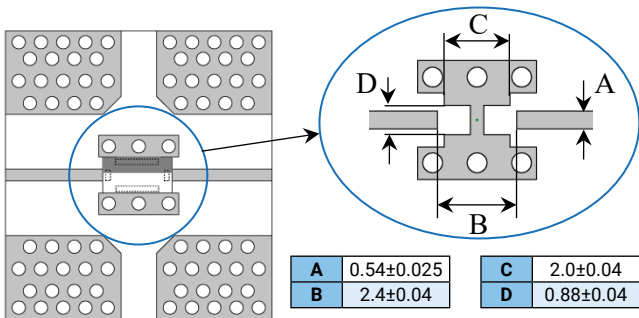


|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

TERMINALS:  
(Top View)



RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
\*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## High Performance Low Pass Filters

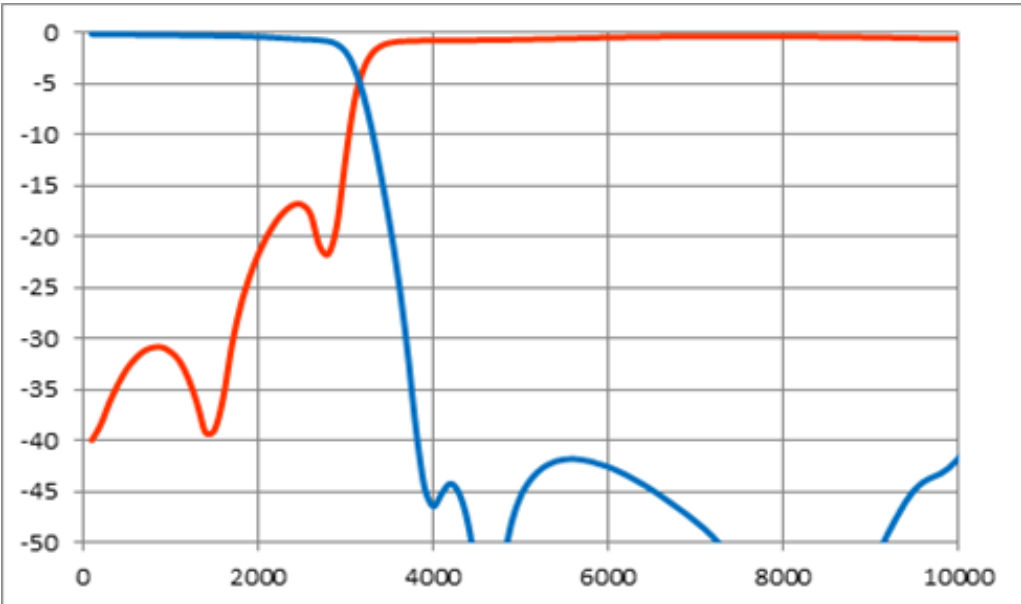
### LP1206A2500ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

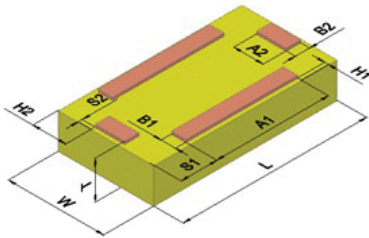
| Parameter       | Value      | Unit | Notes                 |
|-----------------|------------|------|-----------------------|
| Fc              | 2500       | MHz  |                       |
| Insertion Loss  | -0.7       | dB   | Max.                  |
| VSWR            | 1.66 : 1   |      | Max. (all ports)      |
| Rejection       | -35        | dB   | Typ. (5.0 – 10.0 GHz) |
| Power Handling  | 12         | W    | Continuous            |
| Impedance       | 50         | Ohm  |                       |
| Operating Temp. | -40 to +85 | °C   |                       |
| Size            | 1206       |      |                       |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

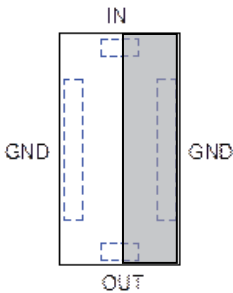
(Bottom View)



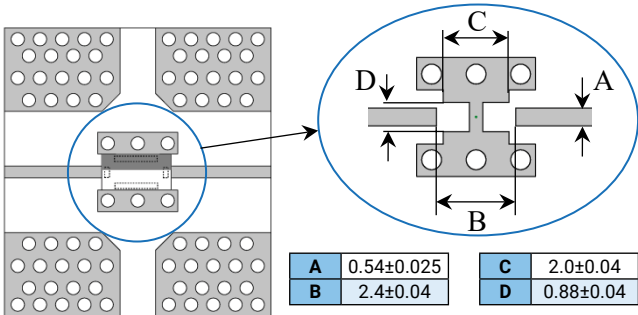
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## High Performance Low Pass Filters

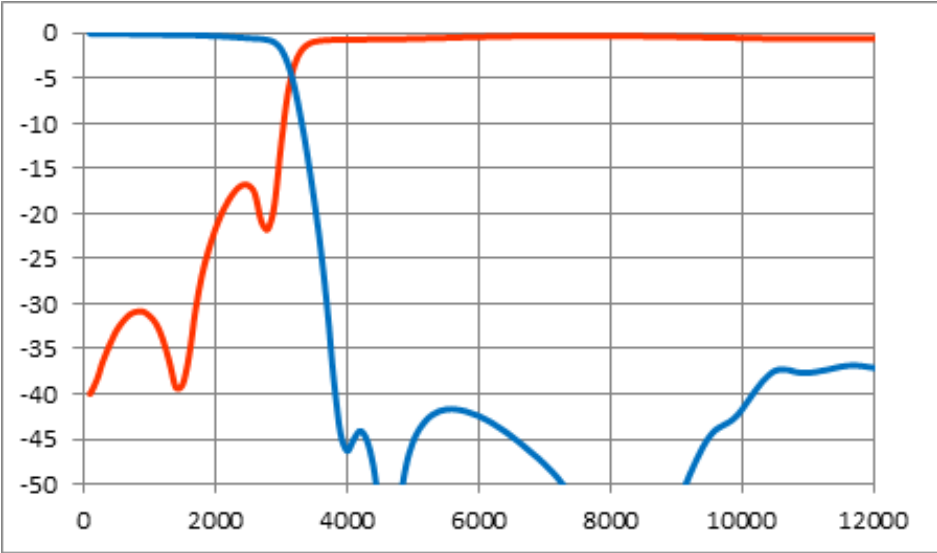
### LP1206A2700ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

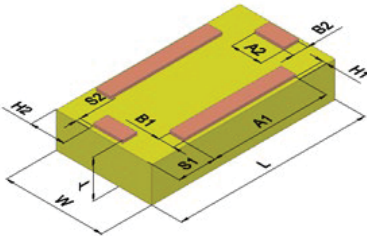
| Parameter       | Value      | Unit | Notes                  |
|-----------------|------------|------|------------------------|
| Fc              | 2700       | MHz  |                        |
| Insertion Loss  | -0.85      | dB   | Max.                   |
| VSWR            | 1.66 : 1   |      | Max. (all ports)       |
| Rejection       | -35        | dB   | Typ. (5.4 – 10.0 GHz)  |
| Rejection       | -30        | dB   | Typ. (10.0 – 11.5 GHz) |
| Power Handling  | 12         | W    | Continuous             |
| Impedance       | 50         | Ohm  |                        |
| Operating Temp. | -40 to +85 | °C   |                        |
| Size            | 1206       |      |                        |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

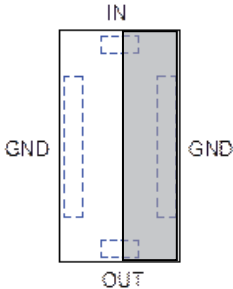
(Bottom View)



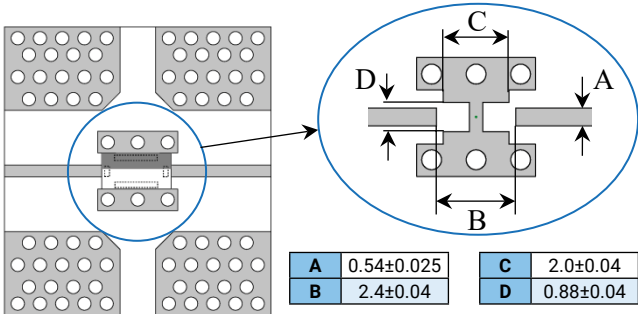
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## High Performance Low Pass Filters

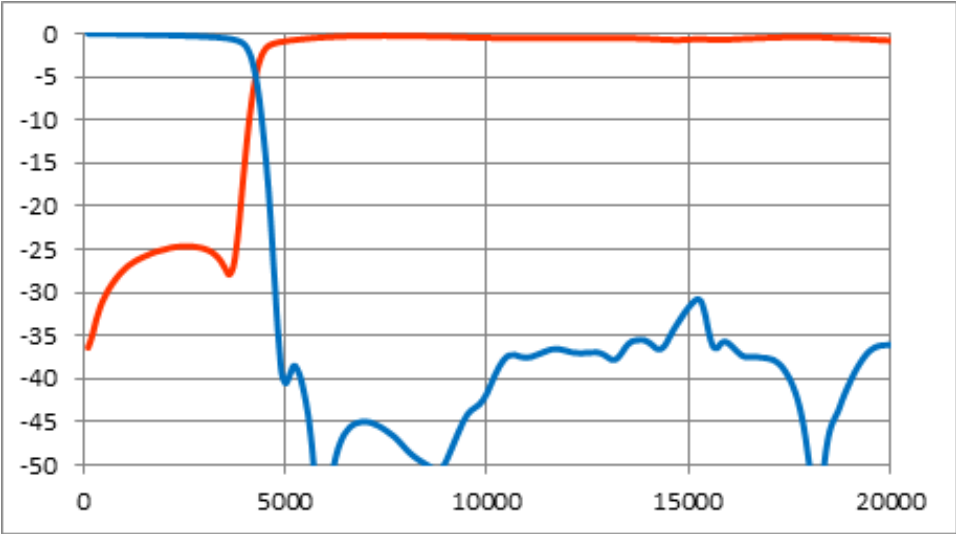
### LP1206A3000ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

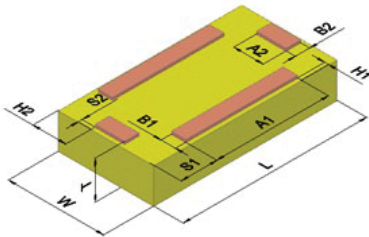
| Parameter       | Value      | Unit | Notes                 |
|-----------------|------------|------|-----------------------|
| Fc              | 3000       | MHz  |                       |
| Insertion Loss  | -0.7       | dB   | Max.                  |
| VSWR            | 1.66 : 1   |      | Max. (all ports)      |
| Rejection       | -40        | dB   | Typ. (6.0 – 9.0 GHz)  |
| Rejection       | -30        | dB   | Typ. (9.0 – 12.0 GHz) |
| Power Handling  | 12         | W    | Continuous            |
| Impedance       | 50         | Ohm  |                       |
| Operating Temp. | -40 to +85 | °C   |                       |
| Size            | 1206       |      |                       |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

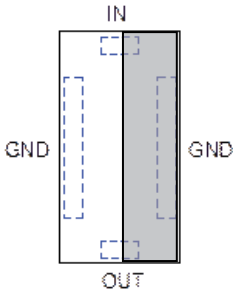
(Bottom View)



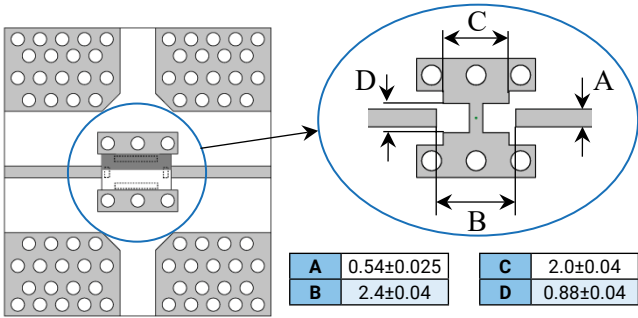
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcon RF-35P

EVB P/N: 544-7090

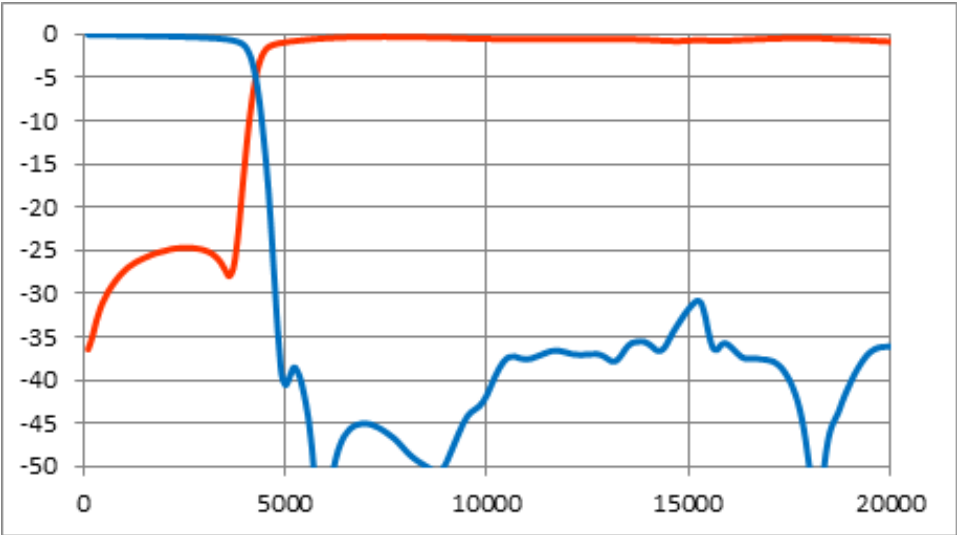
Thin-Film RF/Microwave Filters  
High Performance Low Pass Filters  
LP1206A3200ANTR – LGA Termination



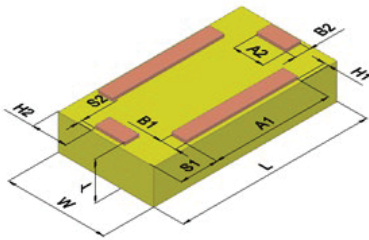
TYPICAL ELECTRICAL PERFORMANCE

| Parameter       | Value      | Unit | Notes                  |
|-----------------|------------|------|------------------------|
| Fc              | 3200       | MHz  |                        |
| Insertion Loss  | -0.7       | dB   | Max.                   |
| VSWR            | 1.66 : 1   |      | Max. (all ports)       |
| Rejection       | -38        | dB   | Typ. (6.4 – 10.0 GHz)  |
| Rejection       | -30        | dB   | Typ. (10.0 – 12.8 GHz) |
| Power Handling  | 12         | W    | Continuous             |
| Impedance       | 50         | Ohm  |                        |
| Operating Temp. | -40 to +85 | °C   |                        |
| Size            | 1206       |      |                        |

Click here to return to main table.

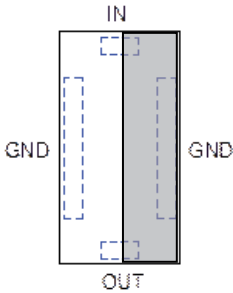


DIMENSIONS: mm (inches)  
(Bottom View)

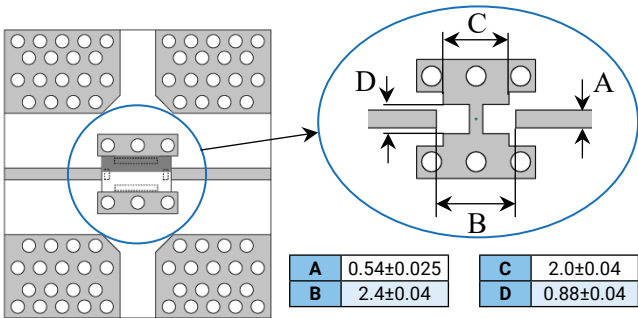


|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

TERMINALS:  
(Top View)



RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
\*\* PCB : Taconic Orer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## High Performance Low Pass Filters

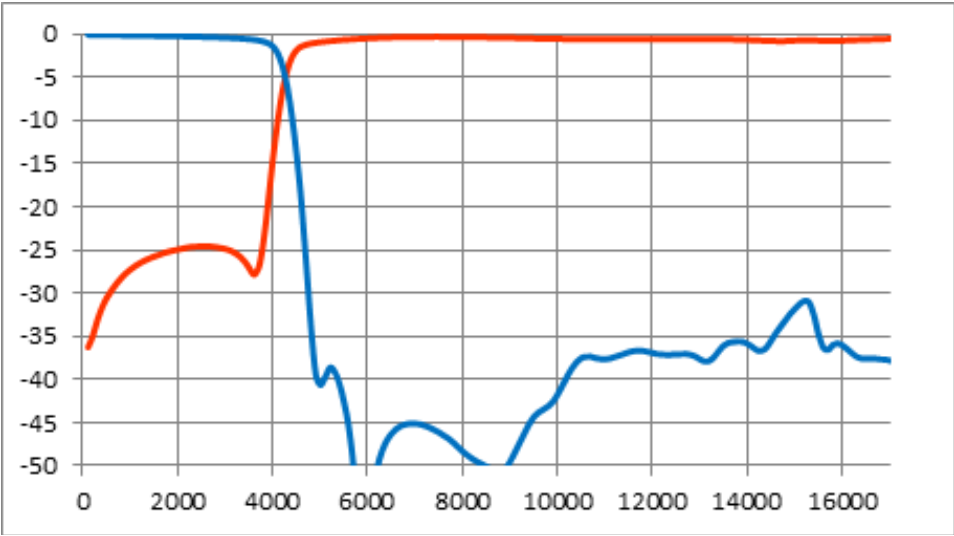
### LP1206A3300ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

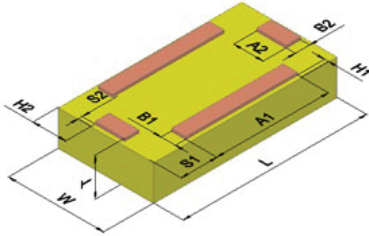
| Parameter       | Value      | Unit | Notes                  |
|-----------------|------------|------|------------------------|
| Fc              | 3300       | MHz  |                        |
| Insertion Loss  | -0.7       | dB   | Max.                   |
| VSWR            | 1.66 : 1   |      | Max. (all ports)       |
| Rejection       | -38        | dB   | Typ. (6.4 – 10.0 GHz)  |
| Rejection       | -30        | dB   | Typ. (10.0 – 12.8 GHz) |
| Power Handling  | 12         | W    | Continuous             |
| Impedance       | 50         | Ohm  |                        |
| Operating Temp. | -40 to +85 | °C   |                        |
| Size            | 1206       |      |                        |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

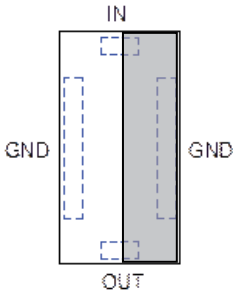
(Bottom View)



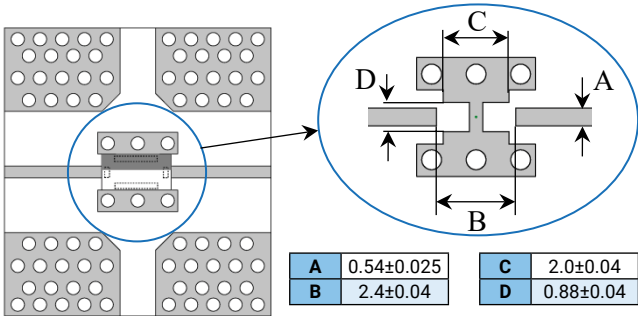
|           |         |              |           |
|-----------|---------|--------------|-----------|
| <b>L</b>  | 3.1±0.1 | <b>B1,B2</b> | 0.25±0.1  |
| <b>W</b>  | 1.6±0.1 | <b>H1</b>    | 0.06±0.06 |
| <b>T</b>  | 0.6±0.3 | <b>H2</b>    | 0.56±0.10 |
| <b>A1</b> | 1.9±0.1 | <b>S1</b>    | 0.61±0.1  |
| <b>A2</b> | 0.5±0.1 | <b>S2</b>    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcon RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## High Performance Low Pass Filters

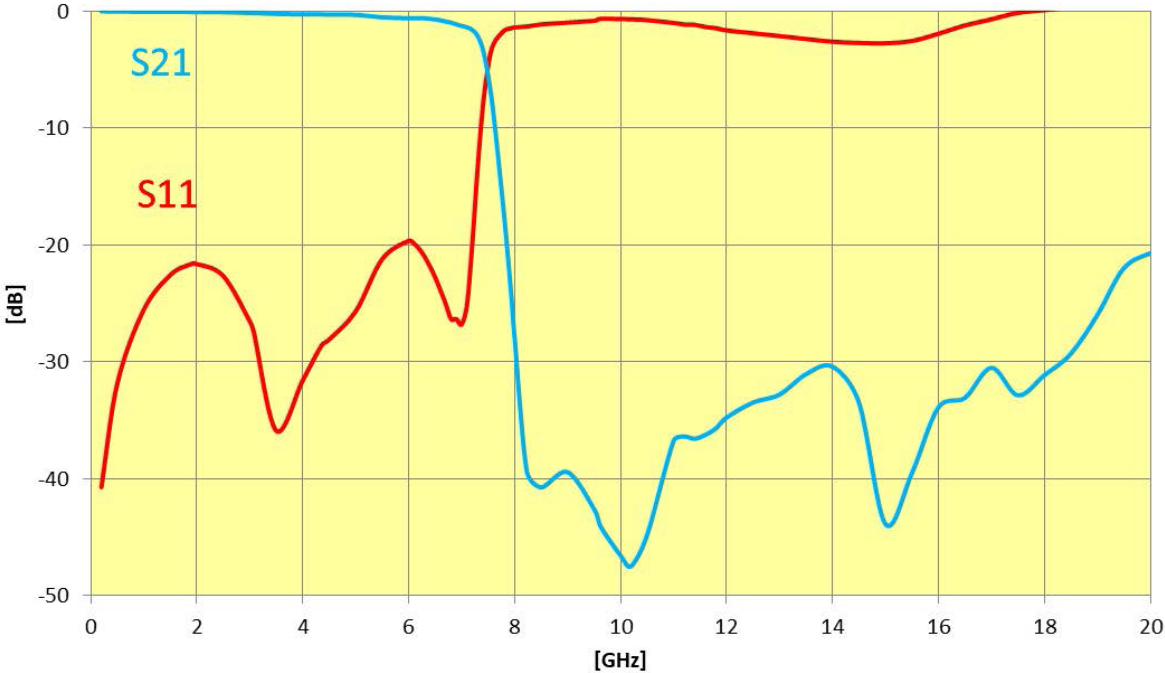
### LP1206A3400ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

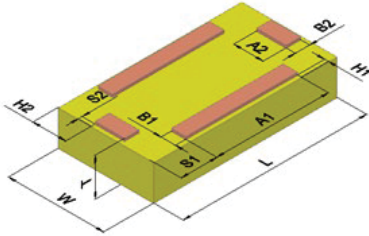
| Parameter                | Value       | Unit | Notes                |
|--------------------------|-------------|------|----------------------|
| Fc                       | 3400        | MHz  |                      |
| Passband                 | 3.4         | GHz  |                      |
| Insertion Loss @ 3.4 GHz | -0.30       | dB   | Max. (-0.25 typical) |
| Return Loss @ 3.4 GHz    | -20         | dB   |                      |
| Rejection @ 8.7-10.5GHz  | -35         | dB   | Min.                 |
| Power Handling           | 12          | W    | RF Continuous        |
| Impedance                | 50          | Ohm  |                      |
| Operating Temp.          | -40 to +100 | °C   |                      |
| Size                     | 1206        |      |                      |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

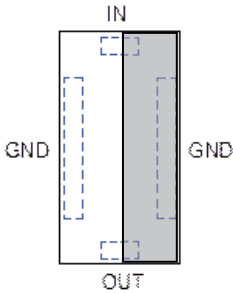
(Bottom View)



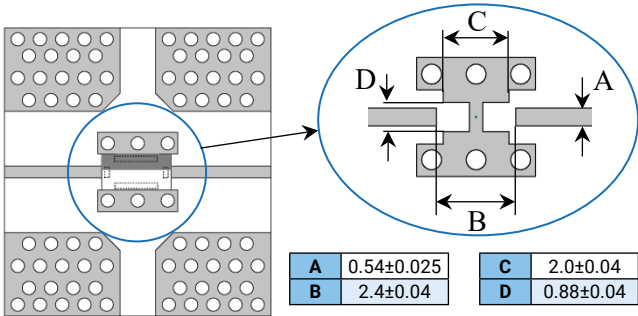
|           |         |              |           |
|-----------|---------|--------------|-----------|
| <b>L</b>  | 3.1±0.1 | <b>B1,B2</b> | 0.25±0.1  |
| <b>W</b>  | 1.6±0.1 | <b>H1</b>    | 0.06±0.06 |
| <b>T</b>  | 0.6±0.3 | <b>H2</b>    | 0.56±0.10 |
| <b>A1</b> | 1.9±0.1 | <b>S1</b>    | 0.61±0.1  |
| <b>A2</b> | 0.5±0.1 | <b>S2</b>    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## High Performance Low Pass Filters

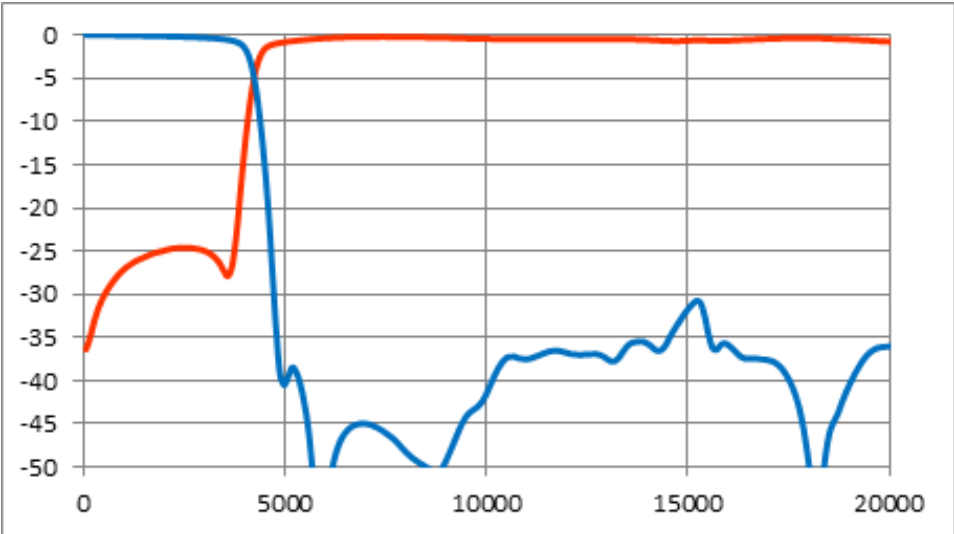
### LP1206A3500ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

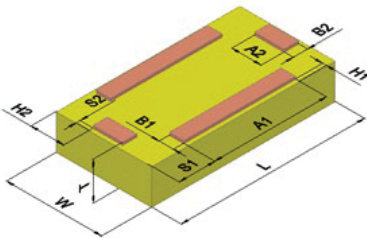
| Parameter       | Value      | Unit | Notes                 |
|-----------------|------------|------|-----------------------|
| Fc              | 3500       | MHz  |                       |
| Insertion Loss  | -0.7       | dB   | Max.                  |
| VSWR            | 1.66 : 1   |      | Max. (all ports)      |
| Rejection       | -38        | dB   | Typ. (6.0 – 10.5 GHz) |
| Rejection       | -30        | dB   | Typ. (10.5 – 15 GHz)  |
| Power Handling  | 12         | W    | Continuous            |
| Impedance       | 50         | Ohm  |                       |
| Operating Temp. | -40 to +85 | °C   |                       |
| Size            | 1206       |      |                       |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

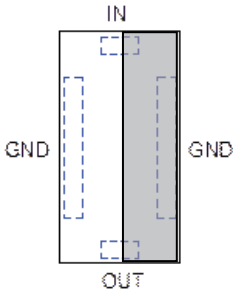
(Bottom View)



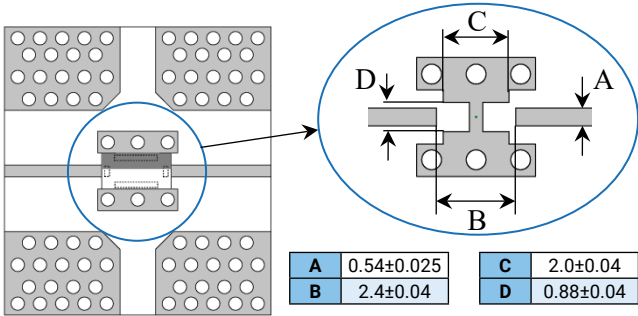
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

### LP1206A4200ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

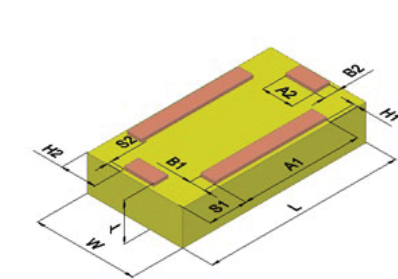
| Parameter       | Value      | Unit | Notes               |
|-----------------|------------|------|---------------------|
| Fc              | 4200       | MHz  |                     |
| Insertion Loss  | -0.5       | dB   | Max.                |
| VSWR            | 1.66 : 1   |      | Max. (all ports)    |
| Rejection       | -30        | dB   | Typ. (6.6 - 17 GHz) |
| Power Handling  | 12         | W    | Continuous          |
| Impedance       | 50         | Ohm  |                     |
| Operating Temp. | -40 to +85 | °C   |                     |
| Size            | 1206       |      |                     |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

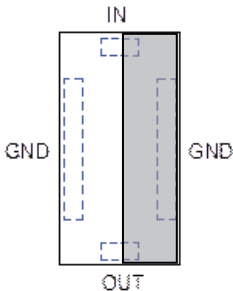
(Bottom View)



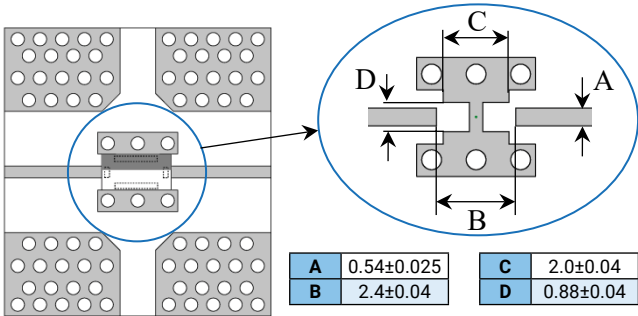
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

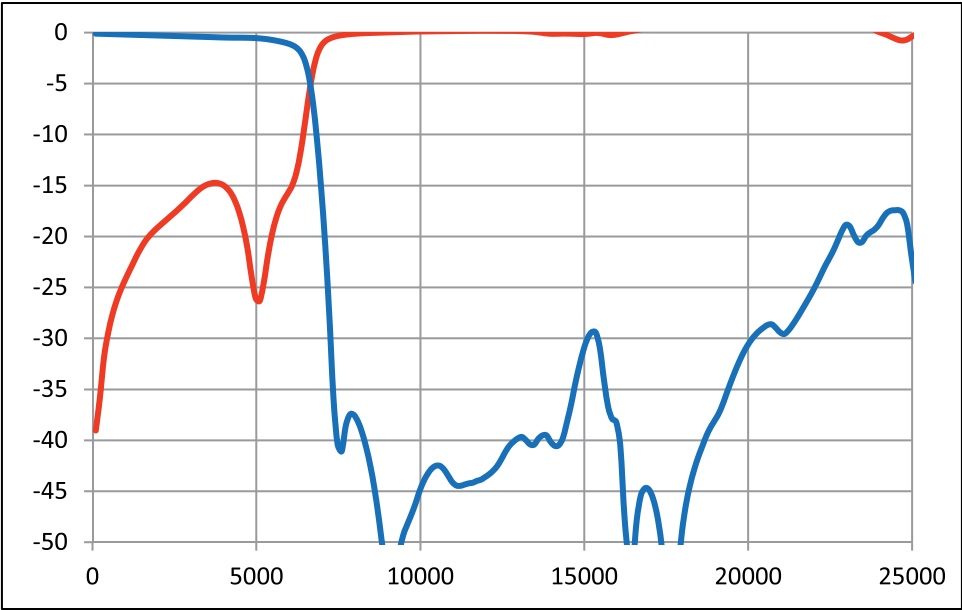
### LP1206A5000ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

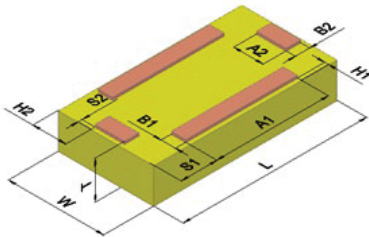
| Parameter       | Value      | Unit | Notes               |
|-----------------|------------|------|---------------------|
| Fc              | 5000       | MHz  |                     |
| Insertion Loss  | -0.7       | dB   |                     |
| R. Loss 0-5GHz  | -15        | dB   |                     |
| Rejection       | -35        | dB   | Min. 9.0 - 14.0 GHz |
| Rejection       | -25        | dB   | Min. 14.0 - 20.0    |
| Power Handling  | 12         | W    | RF Continuous       |
| Impedance       | 50         | Ohm  |                     |
| Operating Temp. | -40 to +85 | °C   |                     |
| Size            | 1206       |      |                     |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

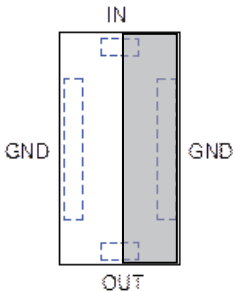
(Bottom View)



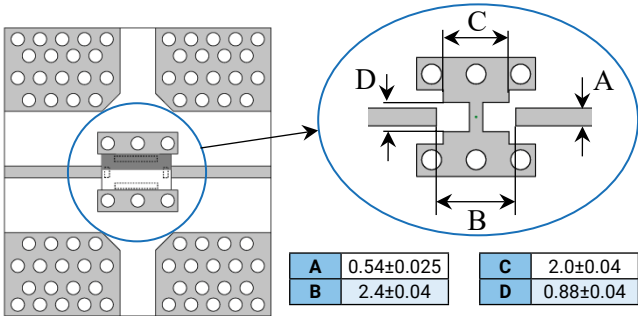
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

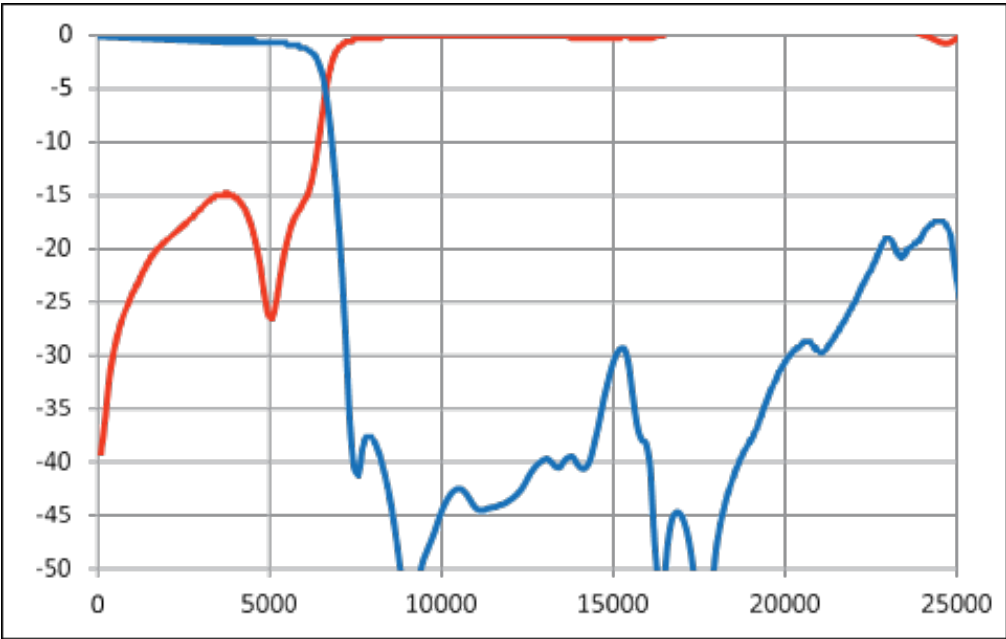
### LP1206A5200ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

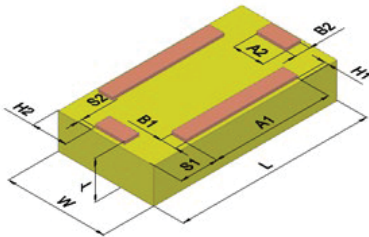
| Parameter       | Value      | Unit | Notes               |
|-----------------|------------|------|---------------------|
| Fc              | 5200       | MHz  |                     |
| Insertion Loss  | -0.75      | dB   |                     |
| R. Loss 0-5GHz  | -15        | dB   |                     |
| Rejection       | -35        | dB   | Min. 8.0 - 14.0 GHz |
| Rejection       | -25        | dB   | Min. 14.0 - 20.0    |
| Power Handling  | 12         | W    | RF Continuous       |
| Impedance       | 50         | Ohm  |                     |
| Operating Temp. | -40 to +85 | °C   |                     |
| Size            | 1206       |      |                     |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

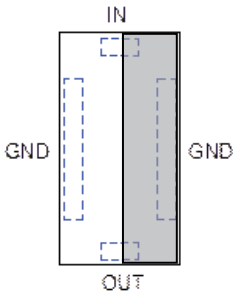
(Bottom View)



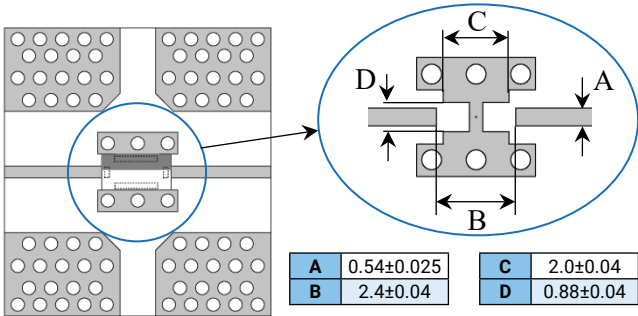
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcer RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

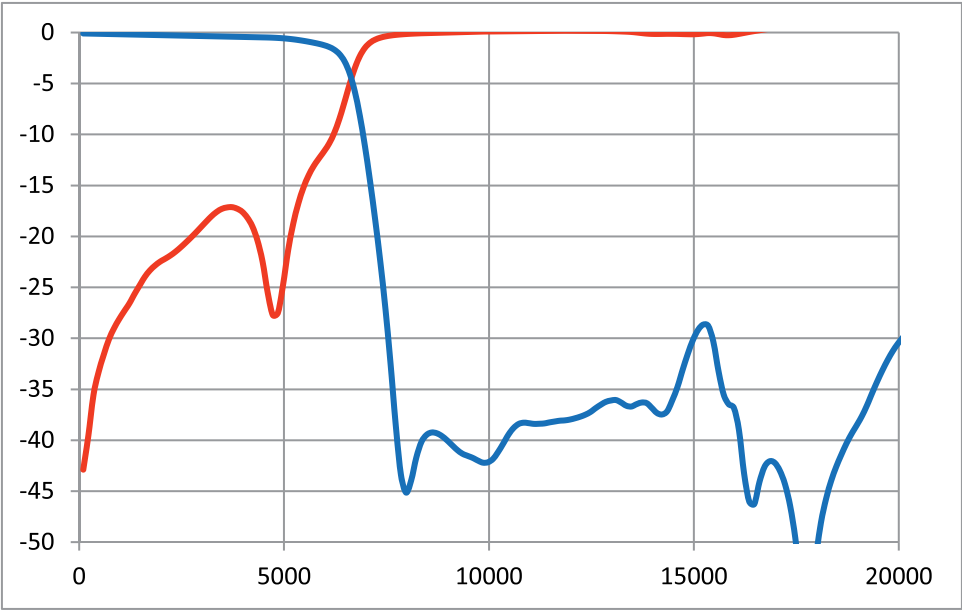
### LP1206A5500ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

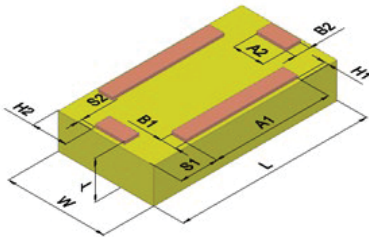
| Parameter       | Value      | Unit | Notes                |
|-----------------|------------|------|----------------------|
| Fc              | 5500       | MHz  |                      |
| Insertion Loss  | -1.0       | dB   |                      |
| R. Loss 0-5GHz  | -12        | dB   |                      |
| Rejection       | -30        | dB   | Min. 9.0 - 14.0 GHz  |
| Rejection       | -27        | dB   | Min. 14.0 - 20.0 GHz |
| Power Handling  | 12         | W    | RF Continuous        |
| Impedance       | 50         | Ohm  |                      |
| Operating Temp. | -40 to +85 | °C   |                      |
| Size            | 1206       |      |                      |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

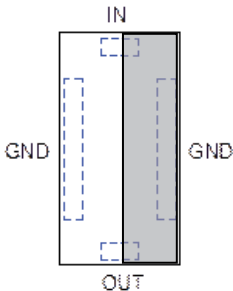
(Bottom View)



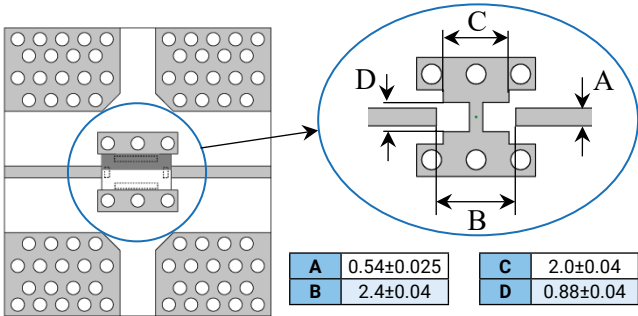
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orcon RF-35P

EVB P/N: 544-7090

# Thin-Film RF/Microwave Filters

## 1206 High Performance Low Pass 12W

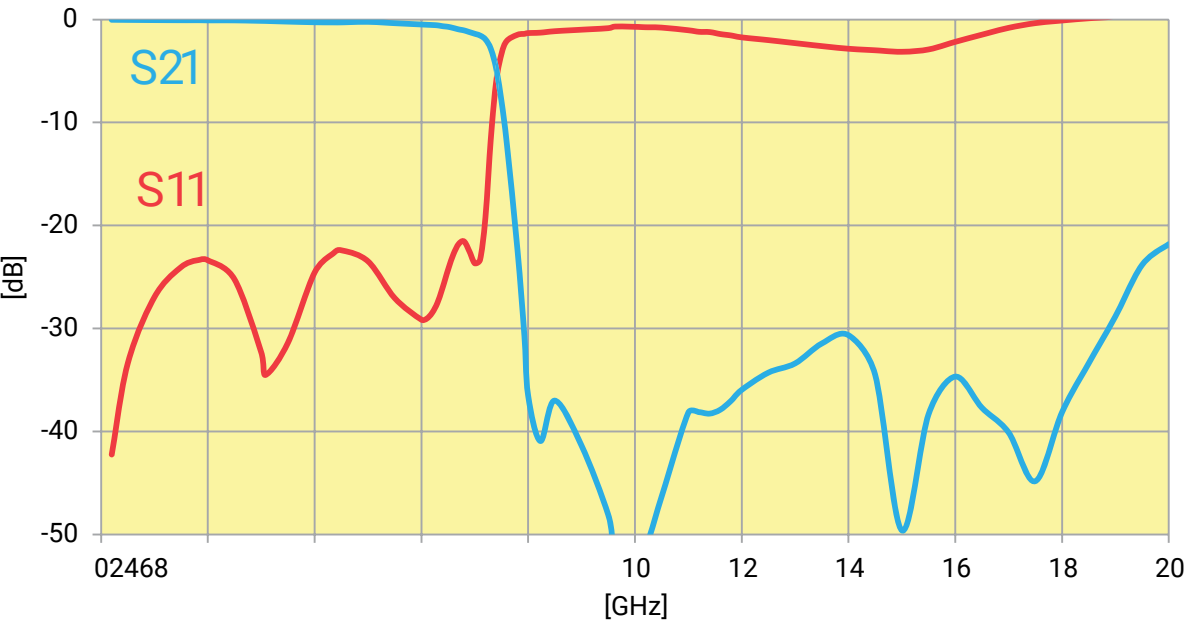
### LP1206A6000ANTR – LGA Termination



#### TYPICAL ELECTRICAL PERFORMANCE

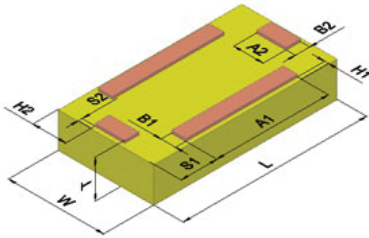
| Parameter       | Value       | Unit | Notes          |
|-----------------|-------------|------|----------------|
| Fc              | 6000        | MHz  |                |
| Rejection       | -35         | dB   | Min. 8.4-18GHz |
| Insertion Loss  | -0.6        | dB   | Max.(6GHz)     |
| R.Loss 0-6GHz   | -20         | dB   |                |
| Power Handling  | 12          | W    | RF Continuous  |
| Impedance       | 50          | Ohm  |                |
| Operating Temp. | -40 to +100 | degC |                |
| Size            | 1206        |      |                |

Click here to return to main table.



#### DIMENSIONS: mm (inches)

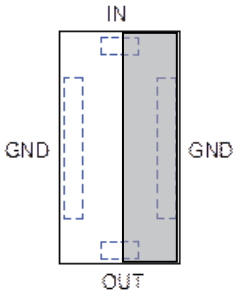
(Bottom View)



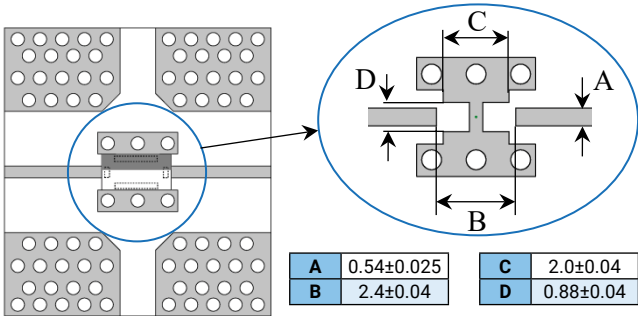
|    |         |       |           |
|----|---------|-------|-----------|
| L  | 3.1±0.1 | B1,B2 | 0.25±0.1  |
| W  | 1.6±0.1 | H1    | 0.06±0.06 |
| T  | 0.6±0.3 | H2    | 0.56±0.10 |
| A1 | 1.9±0.1 | S1    | 0.61±0.1  |
| A2 | 0.5±0.1 | S2    | 0.06±0.06 |

#### TERMINALS:

(Top View)



#### RECOMMENDED PAD LAYOUT: (mm)



\*The recommended distance to the ground plane is 0.254mm ( 0.01")  
 \*\* PCB : Taconic Orer RF-35P

EVB P/N: 544-7090