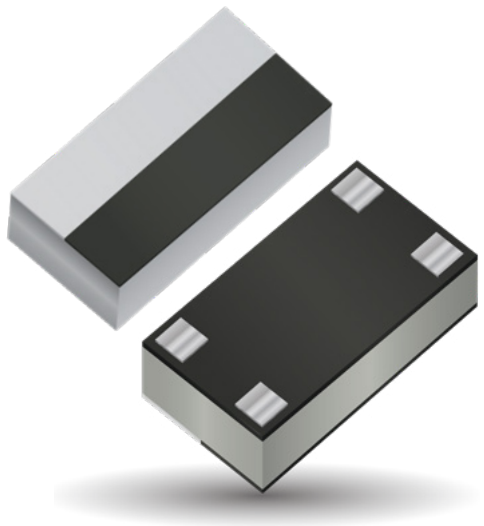
Thin-Film RF/Microwave Filters

1206 Harmonic Low Pass Filter

LP1206A0480ANTR – LGA Termination



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

APPLICATIONS

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

HOW TO ORDER

LP	1206	A	XXXX	A	N	TR
		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

RoHS COMPLIANT

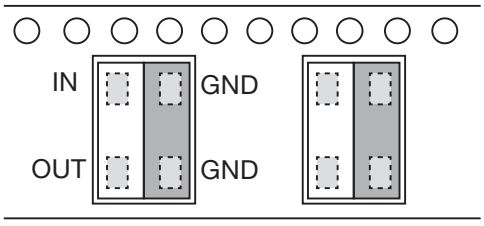
TERMINATION

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

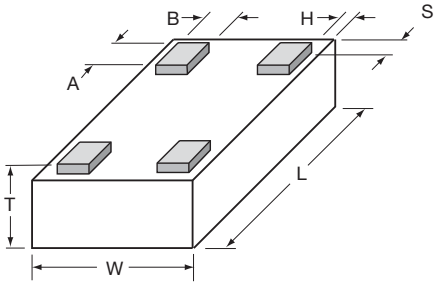
POWER RATING

3W Continuous

ORIENTATION IN TAPE



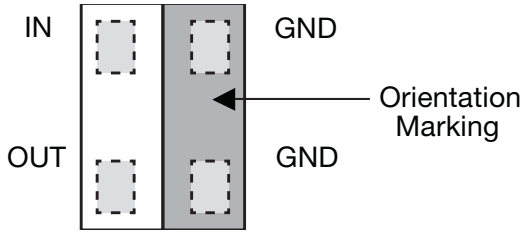
DIMENSIONS (BOTTOM VIEW)



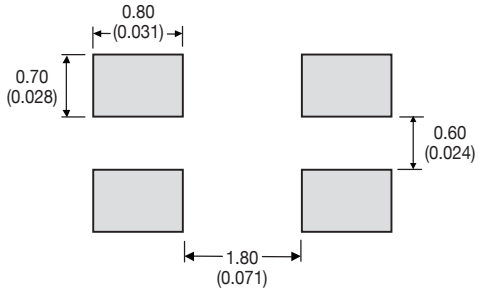
mm (inches)

L	3.10±0.10 (0.122±0.004)
W	1.60±0.10 (0.063±0.004)
T	0.60±0.30 (0.024±0.012)
A	0.39±0.10 0.015±0.004
B	0.33±0.10 0.013±0.004
H, S	0.05±0.05 (0.002±0.002)

TERMINALS (TOP VIEW)



RECOMMENDED PAD LAYOUT DIMENSIONS: mm (inches)

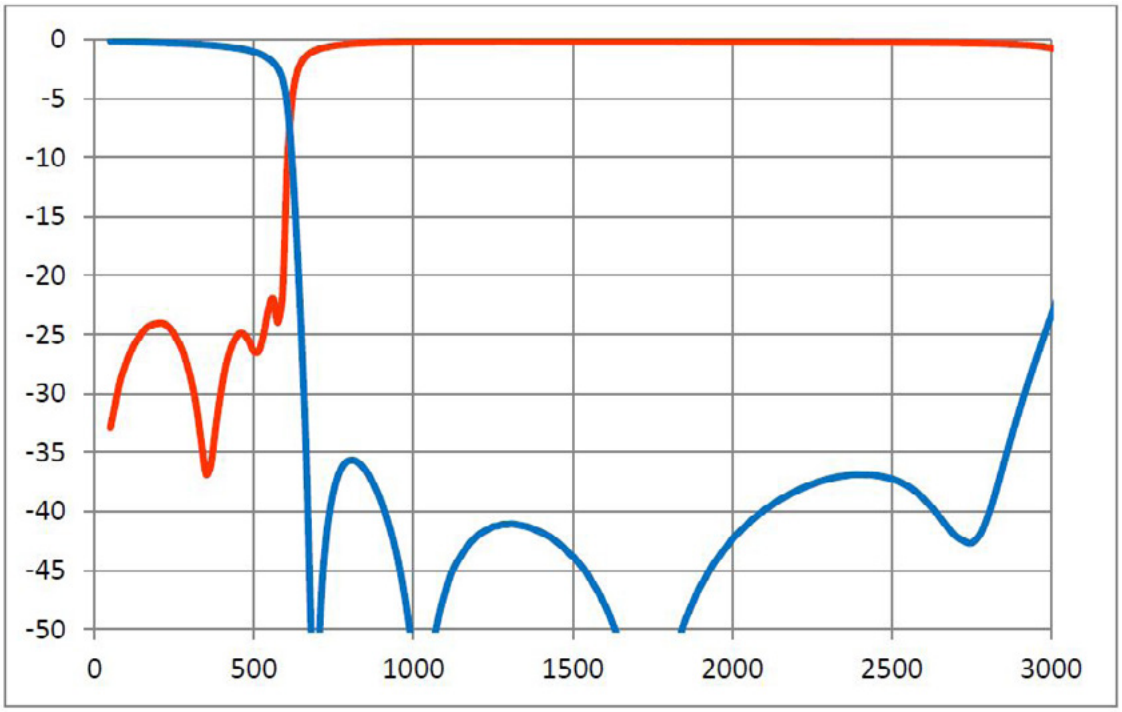


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TERMINALS (TOP VIEW)

Parameter	Value	Unit	Notes
Fc	480	MHz	
Rejection @ 700-2500MHz	-35	dB	
Insertion Loss	-1.1	dB	Max.
VSWR	1.5: 1		Max. (all ports)
Power Handling	3	W	Avg.
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

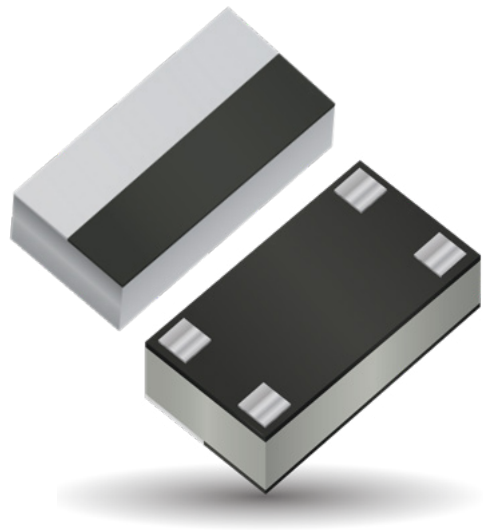
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

1206 High Performance Low Pass 12W

LP1206A0512BNTR – LGA Termination



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: 512MHz
- Characteristic impedance: 50Ω
- Operating/Storage temp: -40°C to +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

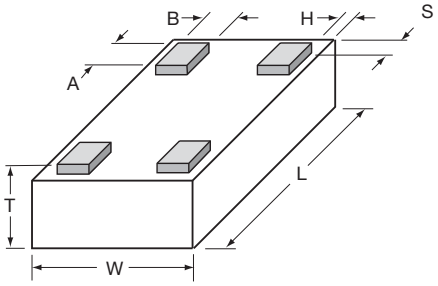
APPLICATIONS

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

HOW TO ORDER

LP	1206	A	XXXX	B	N	TR
		Type	Frequency MHz	Sub-Type	Termination	Taped & Reeled

DIMENSIONS (BOTTOM VIEW)



mm (inches)

L	3.10±0.10 (0.122±0.004)
W	1.60±0.10 (0.063±0.004)
T	0.60±0.30 (0.024±0.012)
A	0.39±0.10 0.015±0.004
B	0.33±0.10 0.013±0.004
H, S	0.05±0.05 (0.002±0.002)

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

RoHS COMPLIANT

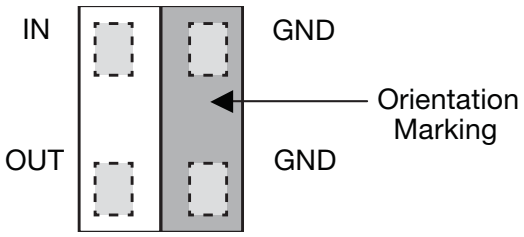
TERMINATION

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

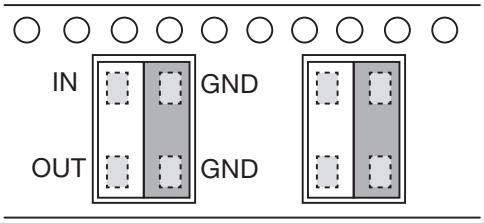
POWER RATING

3W RF Continuous

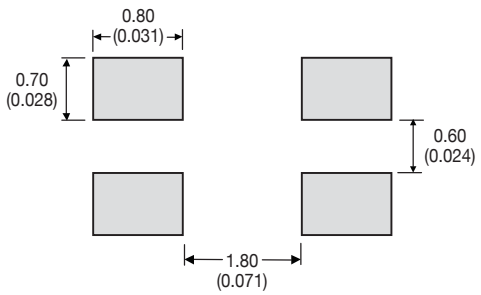
TERMINALS (TOP VIEW)



ORIENTATION IN TAPE



RECOMMENDED PAD LAYOUT DIMENSIONS: mm (inches)

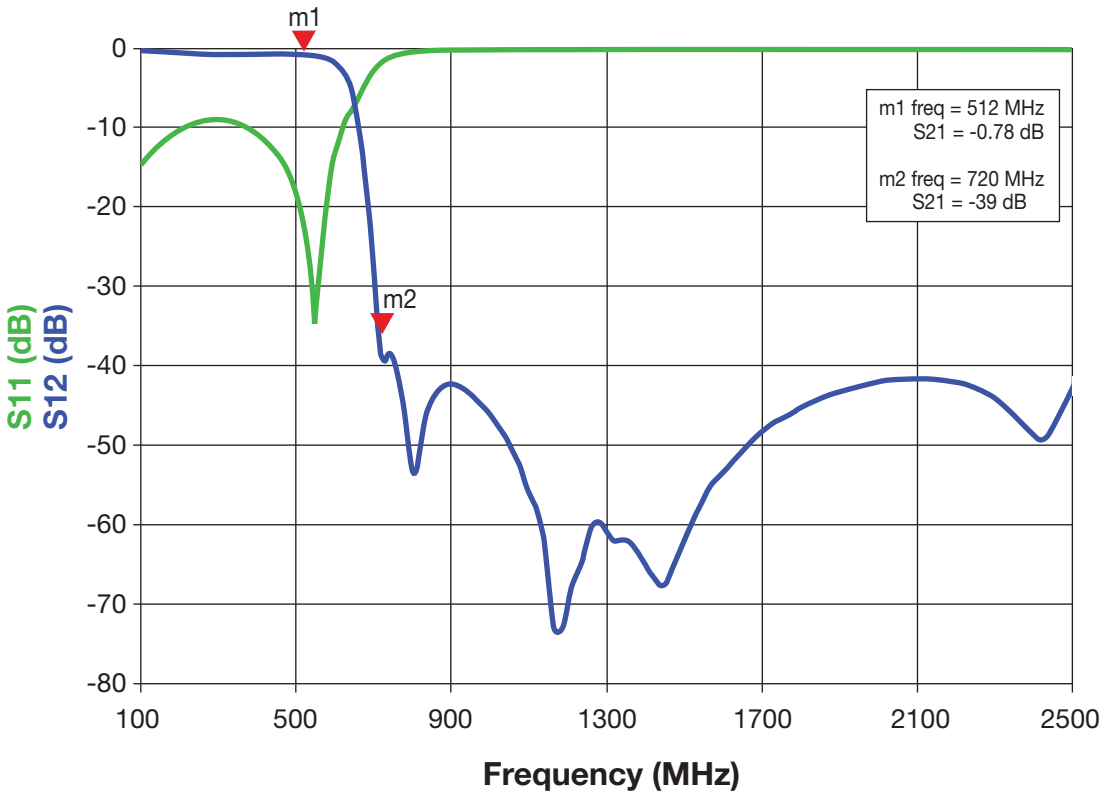


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TERMINALS (TOP VIEW)

Parameter	Value	Unit	Notes
Fc	512	MHz	
Rejection @ 900MHz	-35	dB	Min. (720MHz to 2GHz)
Insertion Loss	0.8	dB	Max.
VSWR	2.3: 1		Max. (all ports)
Power Handling	3	W	Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

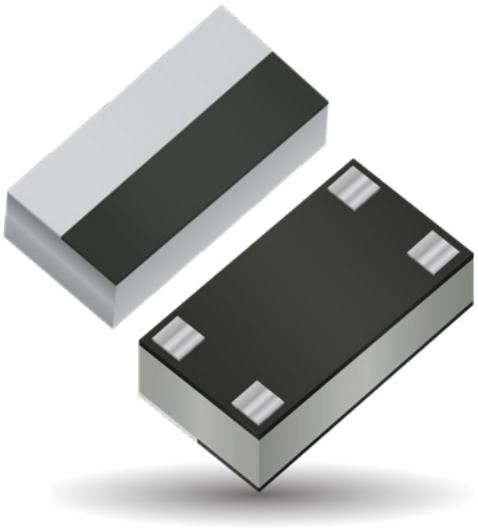
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

1206 Harmonic Low Pass Filter

LP1206A0512CNTR – LGA Termination



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: 512MHz
- Characteristic impedance: 50Ω
- Operating/Storage temp: -40°C to +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

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

HOW TO ORDER

LP	1206	A	XXXX	C	N	TR
		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

RoHS COMPLIANT

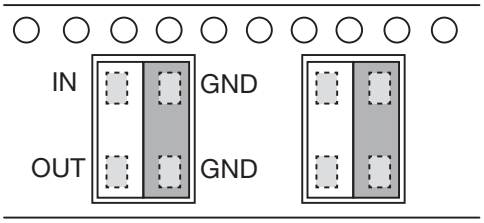
TERMINATION

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

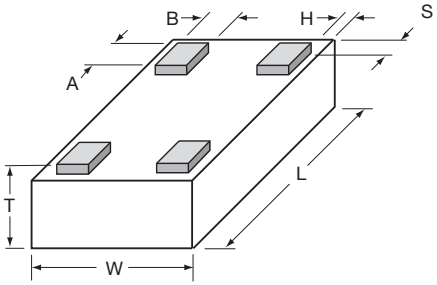
POWER RATING

3W Continuous

ORIENTATION IN TAPE



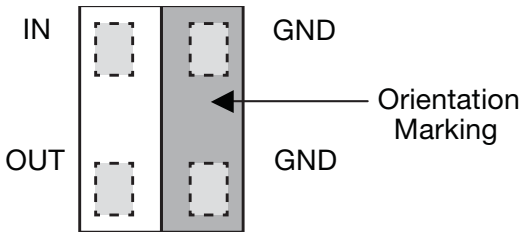
DIMENSIONS (BOTTOM VIEW)



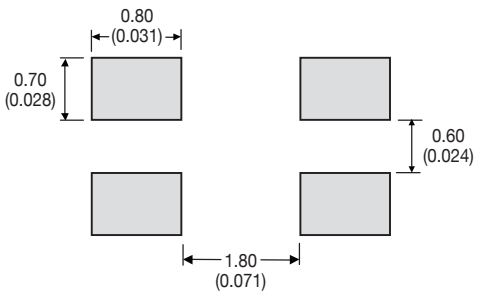
mm (inches)

L	3.10±0.10 (0.122±0.004)
W	1.60±0.10 (0.063±0.004)
T	0.60±0.30 (0.024±0.012)
A	0.39±0.10 0.015±0.004
B	0.33±0.10 0.013±0.004
H, S	0.05±0.05 (0.002±0.002)

TERMINALS (TOP VIEW)



RECOMMENDED PAD LAYOUT DIMENSIONS: mm (inches)

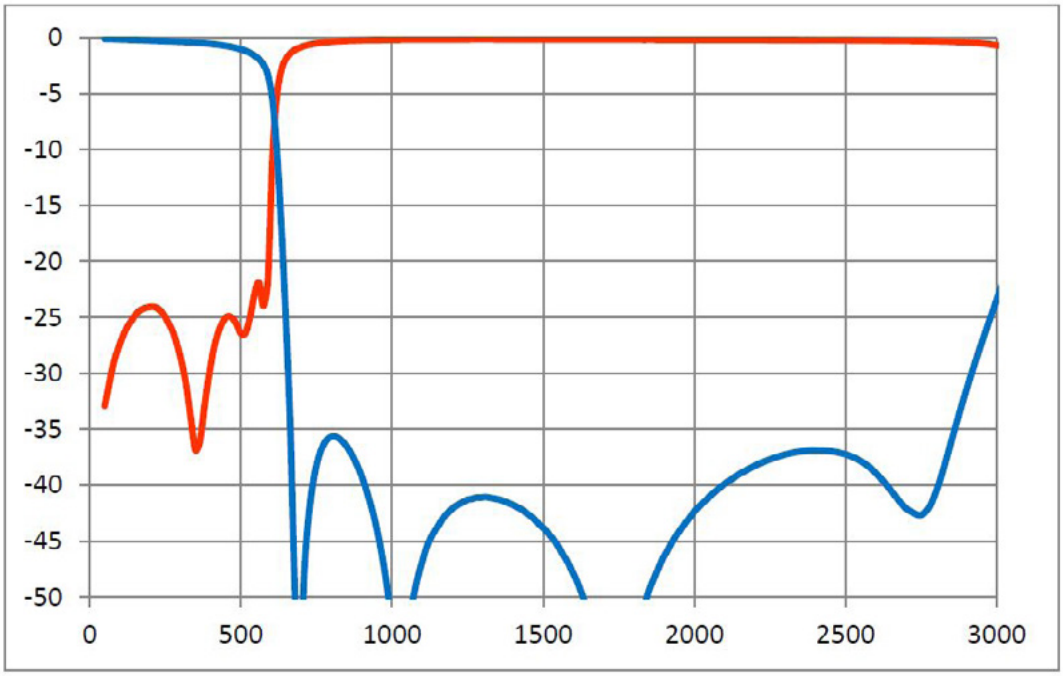


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TERMINALS (TOP VIEW)

Parameter	Value	Unit	Notes
Fc	512	MHz	
Rejection @ 678MHz	-40	dB	
Insertion Loss	-1.5	dB	Max.
VSWR	1.5: 1		Max. (all ports)
Power Handling	3	W	Avg.
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

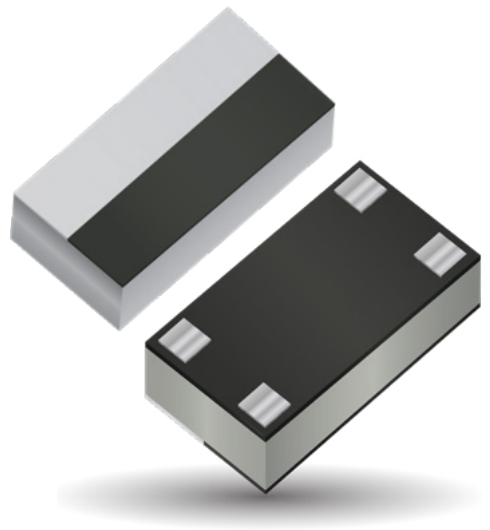
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

1206 High Performance Low Pass 12W

LP1206A0600ANTR – LGA Termination



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: 600MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS:

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

PART NUMBER CODE:

LP 1206 A XXXX ANTR

Frequency (MHz)

FINAL QUALITY INSPECTION:

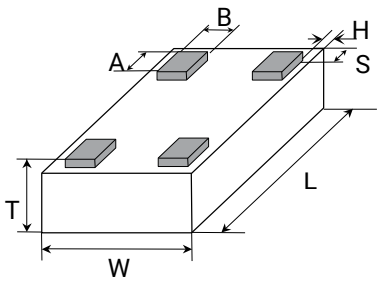
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample basis for:

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

TERMINATION:

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

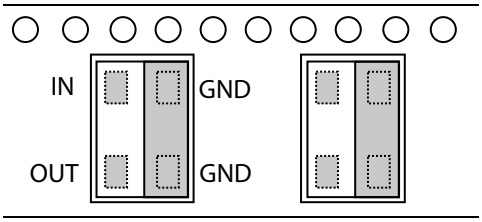
DIMENSIONS: (BOTTOM VIEW)



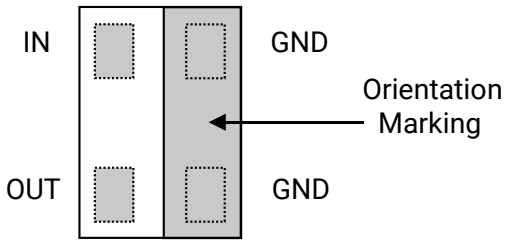
mm (inches)

L	3.10±0.10 (0.122±0.004)
W	1.60±0.10 (0.063±0.004)
T	0.60±0.30 (0.024±0.012)
A	0.39±0.10 0.015±0.004
B	0.33±0.10 0.013±0.004
H, S	0.05±0.05 (0.002±0.002)

ORIENTATION IN TAPE



TERMINALS (TOP VIEW)

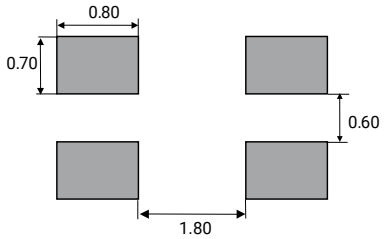


POWER RATING:

12W continuous

RECOMMENDED PAD LAYOUT:

(mm)

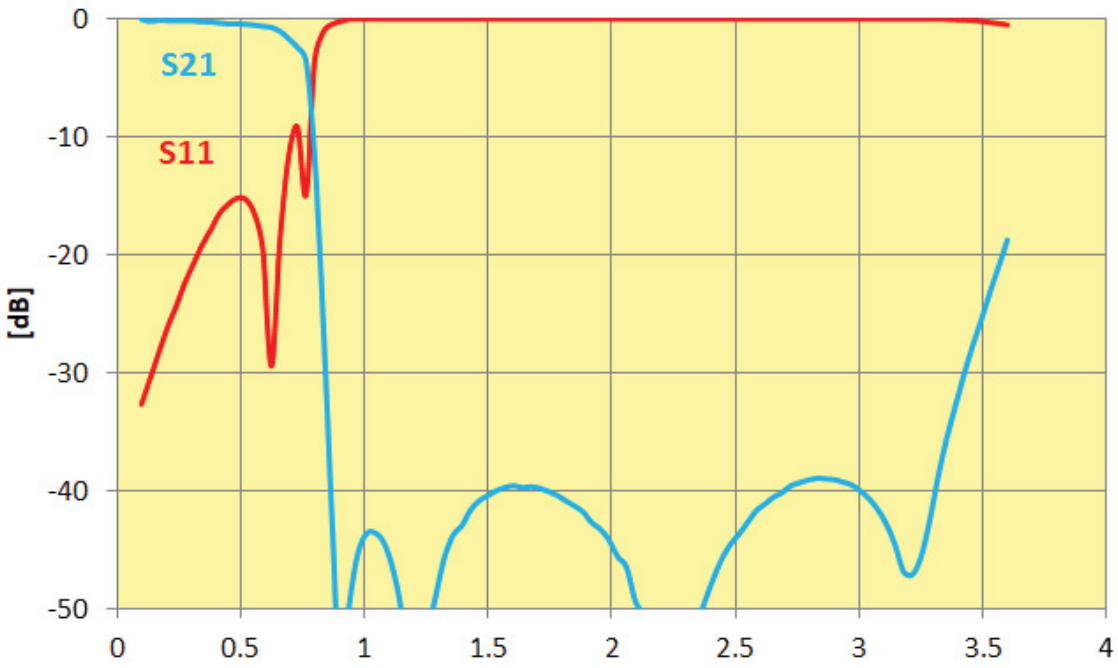


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ELECTRICAL CHARACTERISTICS

LP1206A0600ANTR			
Parameter	**Value**	**Unit**	**Notes**
Fc	600	MHz	
Rejection	-40	dB	Min. @900MHz
Rejection	-40	dB	Typ. 900MHz to 3.1GHz
I.Loss @ 600MHz	-0.8	dB	Max.
R.Loss @ 600MHz	-20	dB	typ.
Power Handling	12	W	RF cont.
Impedance	50	Ohm	
Operating Temp.	-40 to +85	degC	
Size	1206		

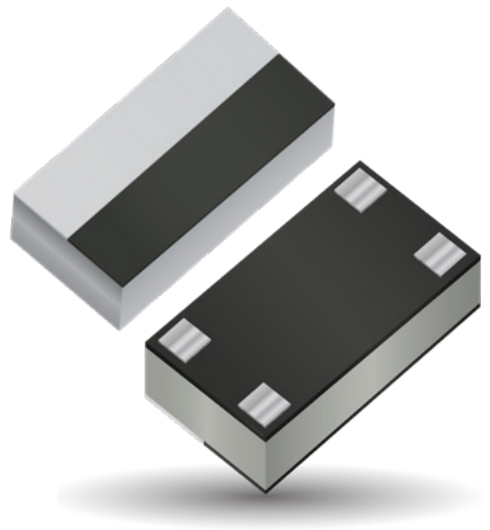
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

1206 High Performance Low Pass 12W

LP1206A0700ANTR – LGA Termination



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: 700MHz
- Characteristic impedance: 50Ω
- Operating/Storage temp: -40°C to +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

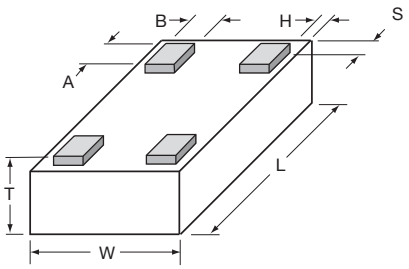
APPLICATIONS

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

HOW TO ORDER

LP	1206	A	XXXX	B	N	TR
		Type	Frequency MHz	Sub-Type	Termination	Taped & Reeled

DIMENSIONS (BOTTOM VIEW)



mm (inches)

L	3.10±0.10 (0.122±0.004)
W	1.60±0.10 (0.063±0.004)
T	0.60±0.30 (0.024±0.012)
A	0.39±0.10 0.015±0.004
B	0.33±0.10 0.013±0.004
H, S	0.05±0.05 (0.002±0.002)

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

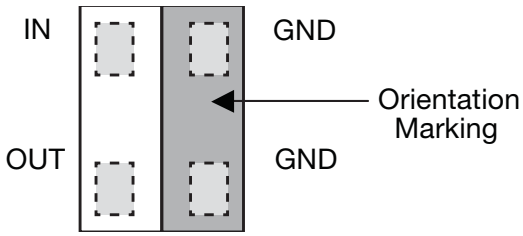
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

RoHS COMPLIANT

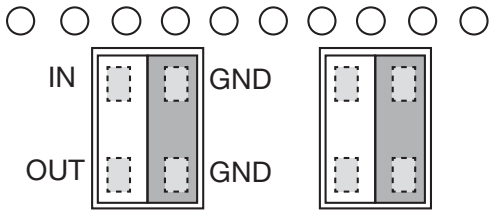
POWER RATING

3W RF Continuous

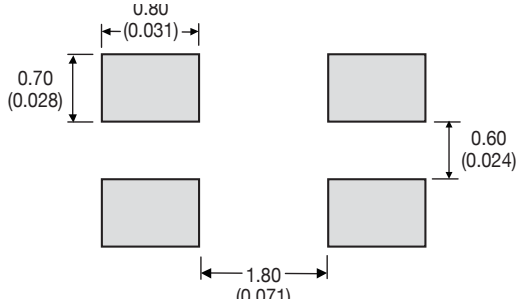
TERMINALS (TOP VIEW)



ORIENTATION IN TAPE



RECOMMENDED PAD LAYOUT DIMENSIONS: mm (inches)

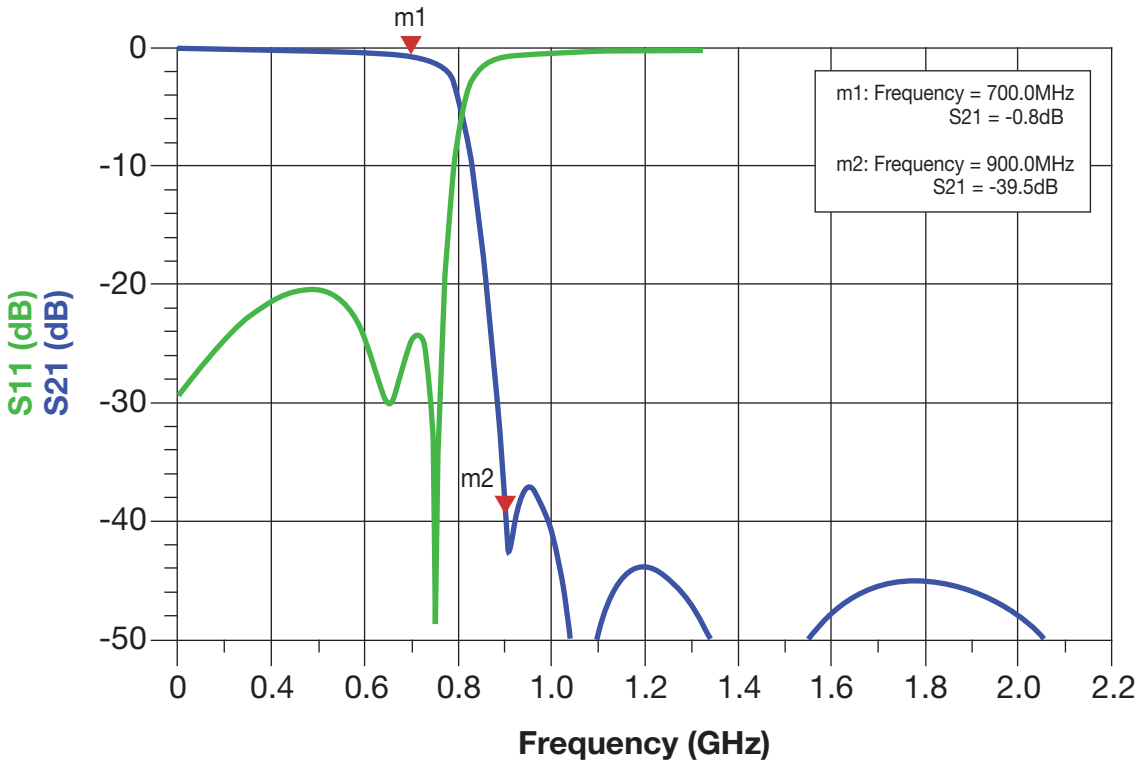


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TERMINALS (TOP VIEW)

Parameter	Value	Unit	Notes
Fc	700	MHz	
Rejection @ 900MHz	-35	dB	Min. (900MHz to 2GHz)
Insertion Loss	0.9	dB	Max.
VSWR	2.3: 1		Max. (all ports)
Power Handling	3	W	Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

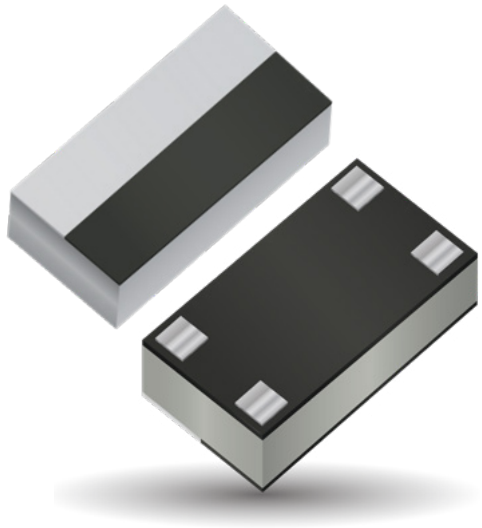
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

1206 High Performance Low Pass 12W

LP1206A0720ANTR – LGA Termination



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: 725MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS:

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

PART NUMBER CODE:

LP 1206 A XXXX ANTR

Frequency (MHz)

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:

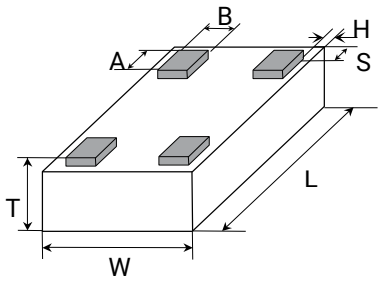
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING:

12W continuous

DIMENSIONS: mm (inches)

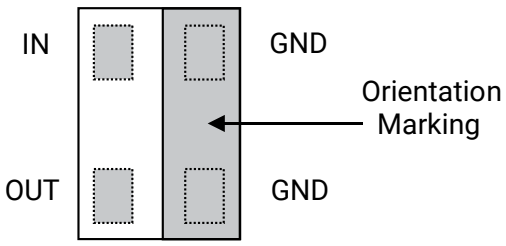
(BOTTOM VIEW)



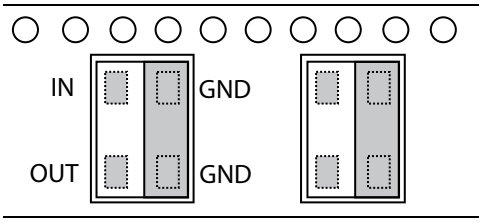
mm (inches)

L	3.10±0.10 (0.122±0.004)
W	1.60±0.10 (0.063±0.004)
T	0.60±0.30 (0.024±0.012)
A	0.39±0.10 0.015±0.004
B	0.33±0.10 0.013±0.004
H, S	0.05±0.05 (0.002±0.002)

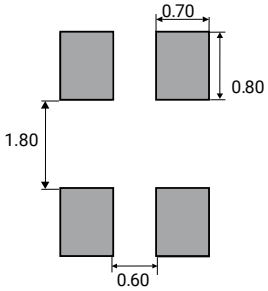
TERMINALS (TOP VIEW)



ORIENTATION IN TAPE



RECOMMENDED PAD LAYOUT: (mm)

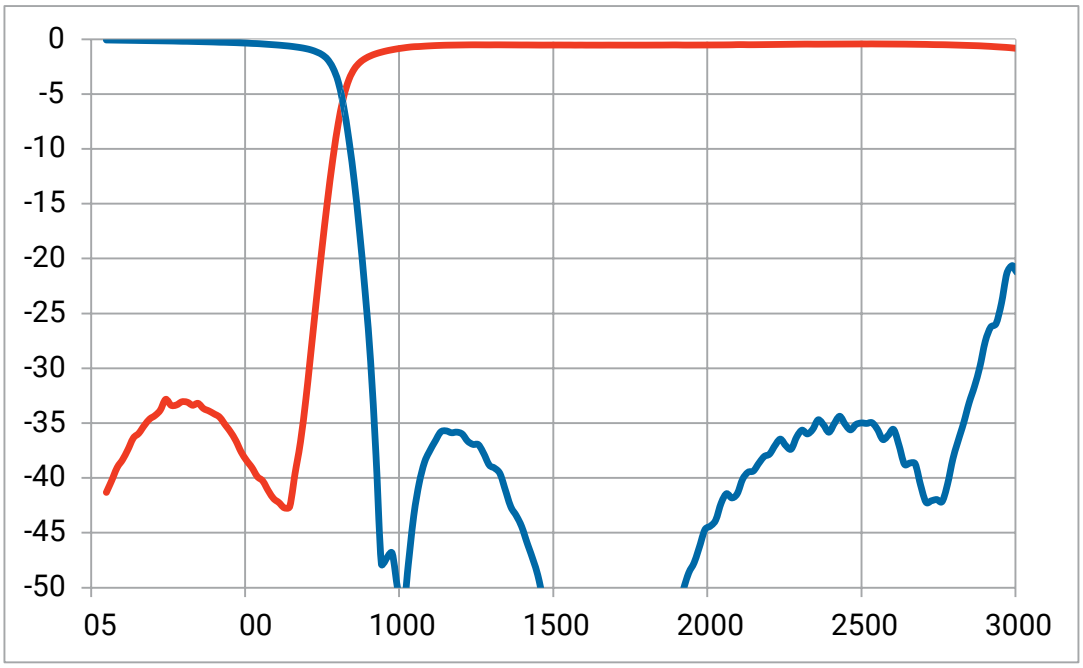


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ELECTRICAL CHARACTERISTICS

LP1206A0600ANTR			
Parameter	**Value**	**Unit**	**Notes**
Fc	720	MHz	
Rejection @875MHz	-15	dB	Min. @875-2500MHz
Insertion Loss	1.2	dB	Max.
VSWR	1.49:1	dB	typ.
Power Handling	12	W	RF cont.
Impedance	50	Ohm	
Operating Temp.	-40 to +85	degC	
Size	1206		

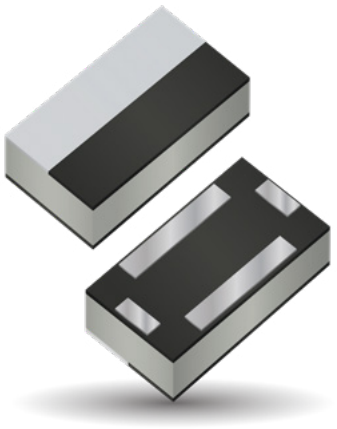
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

High Performance Low Pass Filters

LP1206A2000ANTR – LGA Termination



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: 2.0GHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's
- 5G Application

HOW TO ORDER

LP	1206	A	2000	A	N	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination LGA SN100	Taped & Reeled

FINAL QUALITY INSPECTION

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

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

TERMINATION

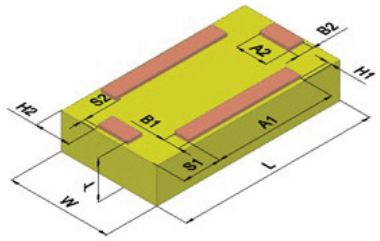
Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

12W Continuous

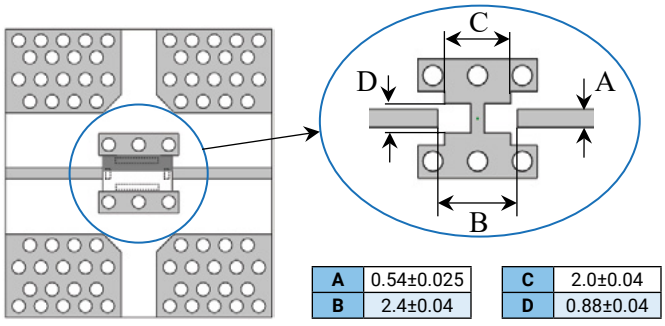
DIMENSIONS: mm (inches)

(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±.06

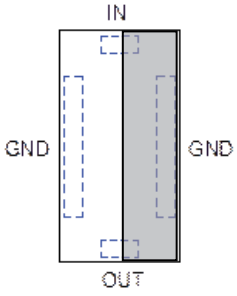
RECOMMENDED PAD LAYOUT: (mm)



A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

TERMINALS:

(Top View)

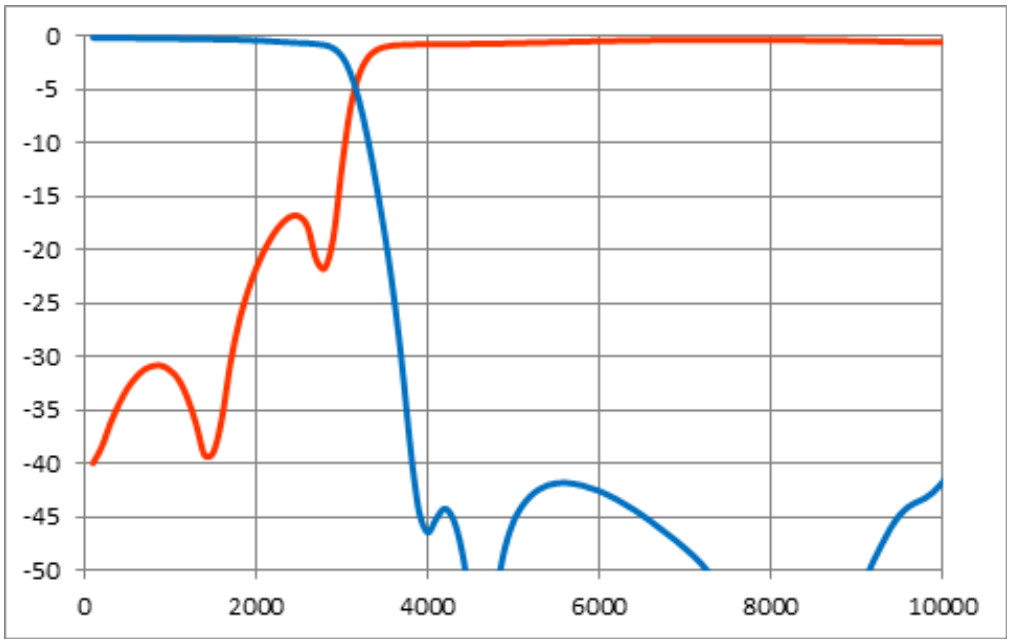


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ELECTRICAL CHARACTERISTICS

LP1206A2000ANTR			
Parameter	**Value**	**Unit**	**Notes**
Passband	2.0	GHz	
Insertion Loss @2.0GHz	-0.7	dB	
R.Loss @2.0 GHz	-12	dB	
Rejection @ 4.0- 8.0 GHz	-35	dB	
Power Handling	12	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

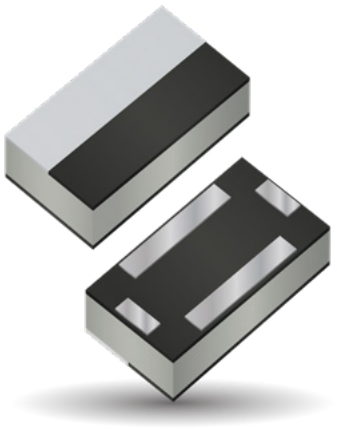
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

High Performance Low Pass Filters

LP1206A2500ANTR – LGA Termination



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: 2.5GHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's
- 5G Application

HOW TO ORDER

LP	1206	A	2500	A	N	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination LGA SN100	Taped & Reeled

FINAL QUALITY INSPECTION

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

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

TERMINATION

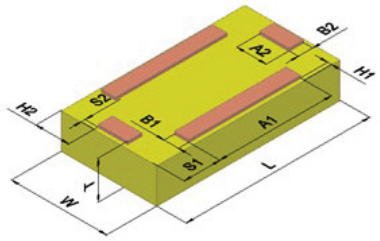
Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

12W Continuous

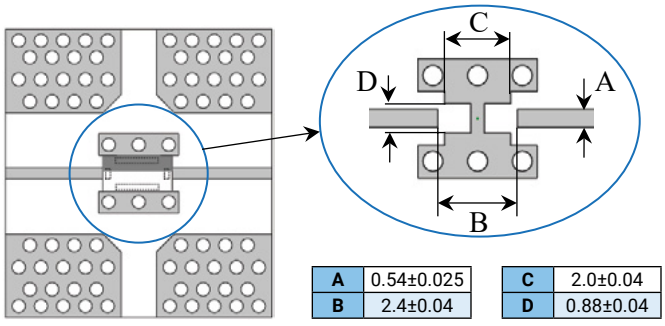
DIMENSIONS: mm (inches)

(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±.06

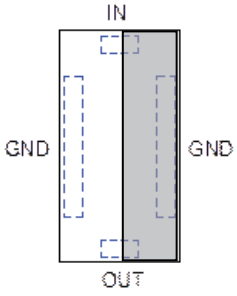
RECOMMENDED PAD LAYOUT: (mm)



A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

TERMINALS:

(Top View)

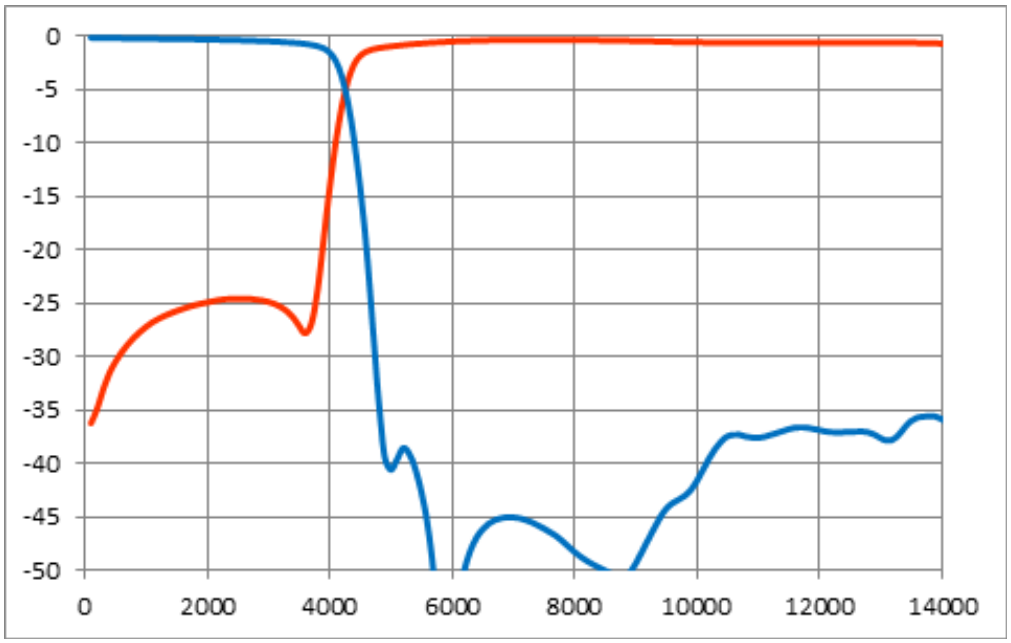


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ELECTRICAL CHARACTERISTICS

LP1206A2500ANTR			
Parameter	**Value**	**Unit**	**Notes**
Passband	2.5	GHz	
Insertion Loss @2.5 GHz	-0.7	dB	
R.Loss @2.5 GHz	-12	dB	
Rejection @ 5.0-10 GHz	-35	dB	
Power Handling	12	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

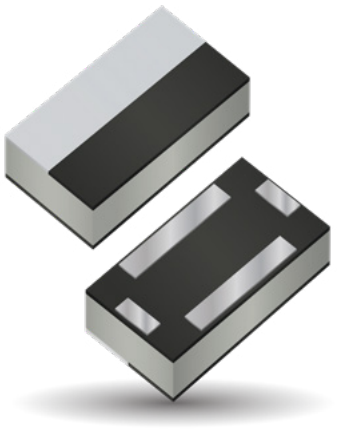
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

High Performance Low Pass Filters

LP1206A2700ANTR – LGA Termination



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: 2.7GHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's
- 5G Application

HOW TO ORDER

LP	1206	A	2700	A	N	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination LGA SN100	Taped & Reeled

FINAL QUALITY INSPECTION

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

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

TERMINATION

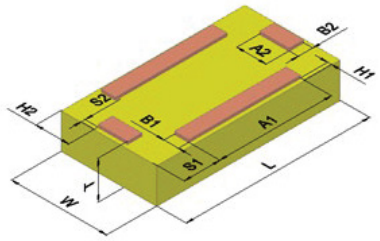
Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

12W Continuous

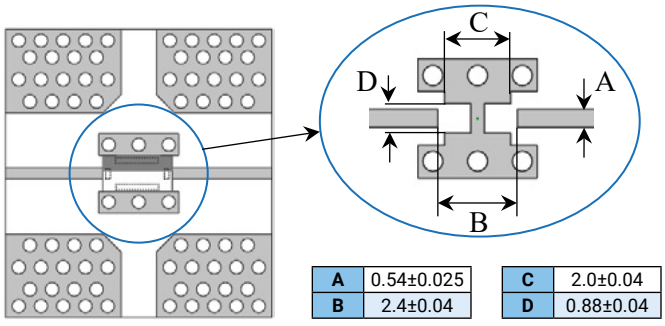
DIMENSIONS: mm (inches)

(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±.06

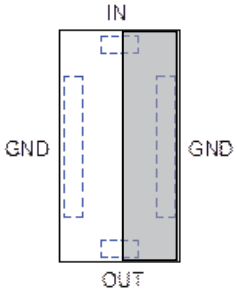
RECOMMENDED PAD LAYOUT: (mm)



A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

TERMINALS:

(Top View)

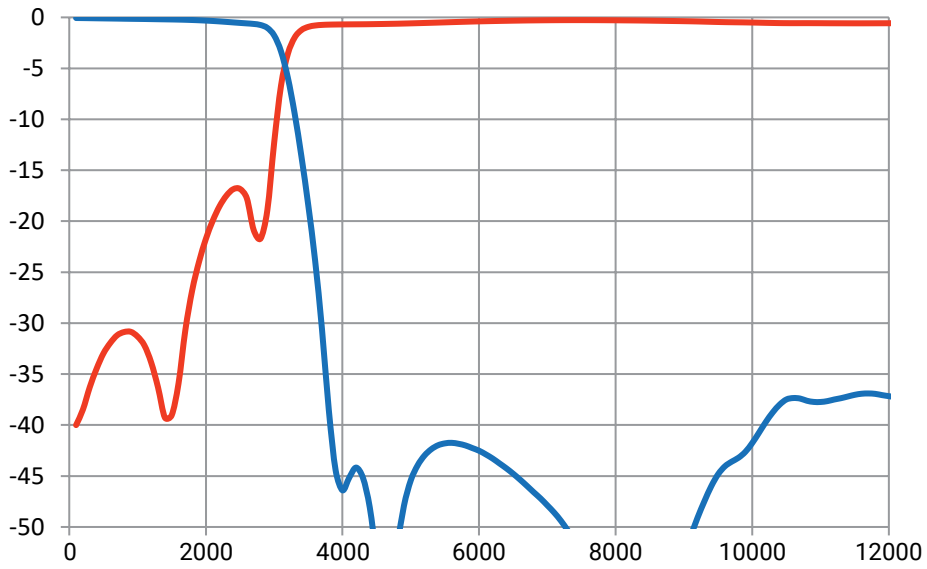


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ELECTRICAL CHARACTERISTICS

LP1206A2700ANTR			
Parameter	**Value**	**Unit**	**Notes**
Passband	2.7	GHz	
Insertion Loss @2.7Hz	-0.85	dB	
R.Loss @2.7GHz	-12	dB	
Rejection @ 5.4-10GHz	-35	dB	
Rejection @ 10.0-11.5Hz	-30	dB	
Power Handling	12	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

TYPICAL ELECTRICAL PERFORMANCE

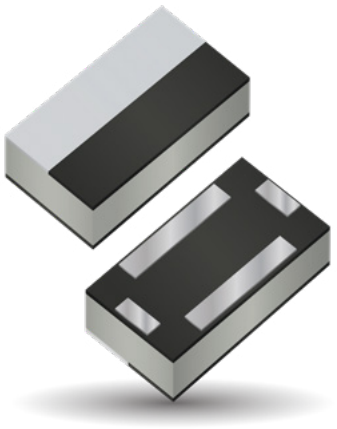


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Thin-Film RF/Microwave Filters

High Performance Low Pass Filters

LP1206A3000ANTR – LGA Termination



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
- Passband: 3000MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's
- 5G Application

HOW TO ORDER

LP	1206	A	3000	A	N	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination LGA SN100	Taped & Reeled

FINAL QUALITY INSPECTION

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

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

TERMINATION

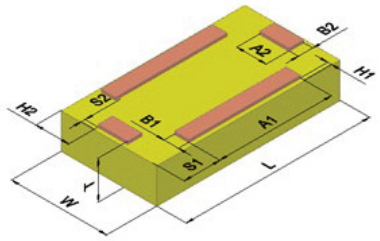
Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

12W Continuous

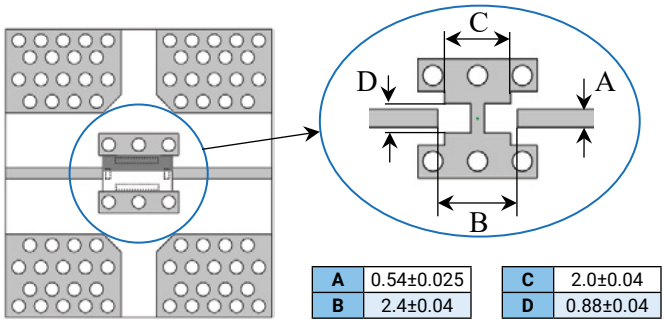
DIMENSIONS: mm (inches)

(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±.06

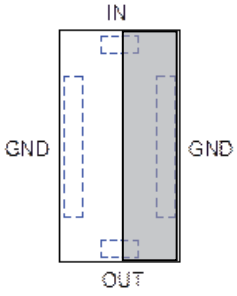
RECOMMENDED PAD LAYOUT: (mm)



A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

TERMINALS:

(Top View)

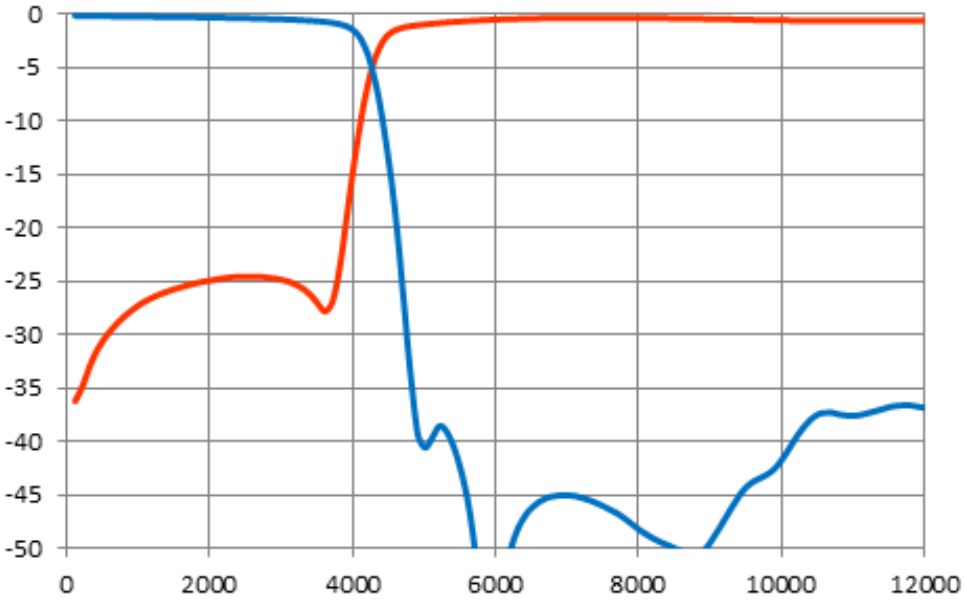


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ELECTRICAL CHARACTERISTICS

LP1206A3000ANTR			
Parameter	**Value**	**Unit**	**Notes**
Passband	3.0	GHz	
Insertion Loss @ 3.0GHz	-0.7	dB	
R.Loss @ 3.0GHz	-12	dB	
Rejection @ 6.0-9.0 GHz	-40	dB	
Rejection @ 9.0-12.0 GHz	-30	dB	
Power Handling	12	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

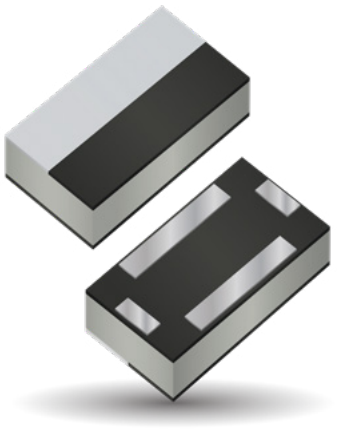
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

High Performance Low Pass Filters

LP1206A3200ANTR – LGA Termination



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
- Passband: 3200MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's
- 5G Application

HOW TO ORDER

LP	1206	A	3200	A	N	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination LGA SN100	Taped & Reeled

FINAL QUALITY INSPECTION

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

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

TERMINATION

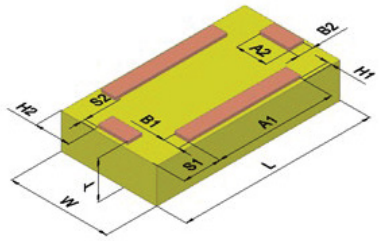
Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

12W Continuous

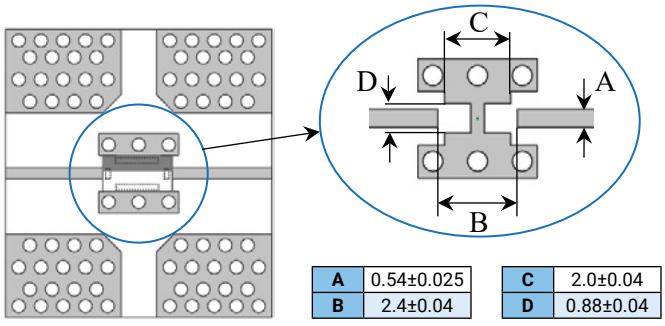
DIMENSIONS: mm (inches)

(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±.06

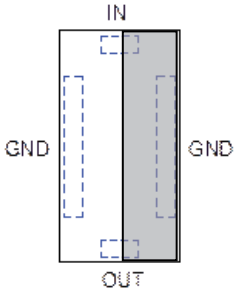
RECOMMENDED PAD LAYOUT: (mm)



A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

TERMINALS:

(Top View)

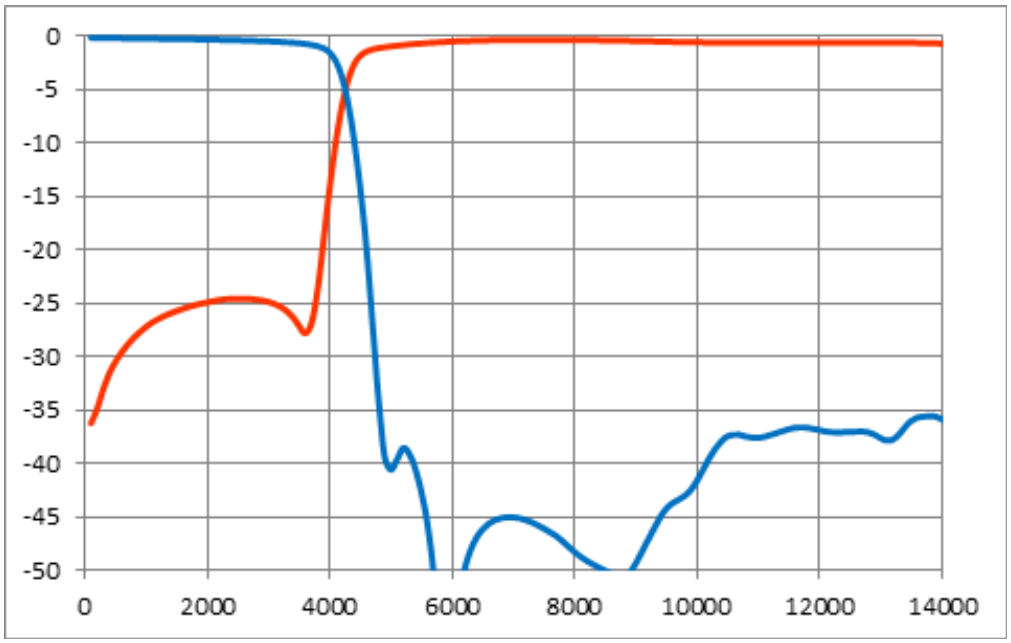


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ELECTRICAL CHARACTERISTICS

LP1206A3200ANTR			
Parameter	**Value**	**Unit**	**Notes**
Passband	3.2	GHz	
Insertion Loss @3.2GHz	-0.7	dB	
R.Loss @3.2GHz	-12	dB	
Rejection @ 6.4 -10GHz	-38	dB	
Rejection @ 10 – 12.8GHz	-30	dB	
Power Handling	12	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

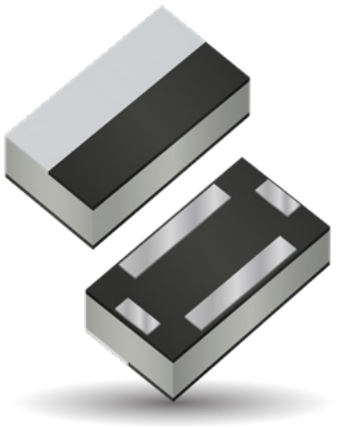
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

High Performance Low Pass Filters

LP1206A3300ANTR – LGA Termination



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
- Passband: 3300MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's
- 5G Application

HOW TO ORDER

LP	1206	A	3300	A	N	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination LGA SN100	Taped & Reeled

FINAL QUALITY INSPECTION

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

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

TERMINATION

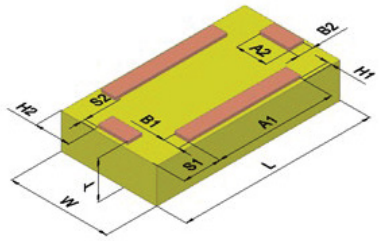
Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

12W Continuous

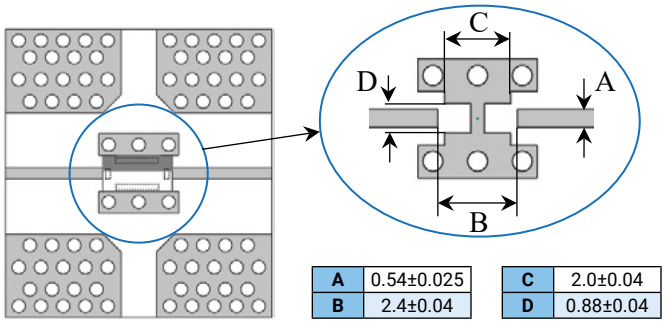
DIMENSIONS: mm (inches)

(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±.06

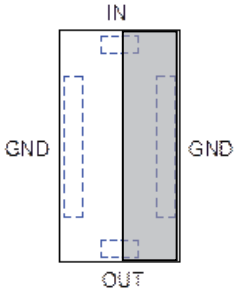
RECOMMENDED PAD LAYOUT: (mm)



A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

TERMINALS:

(Top View)

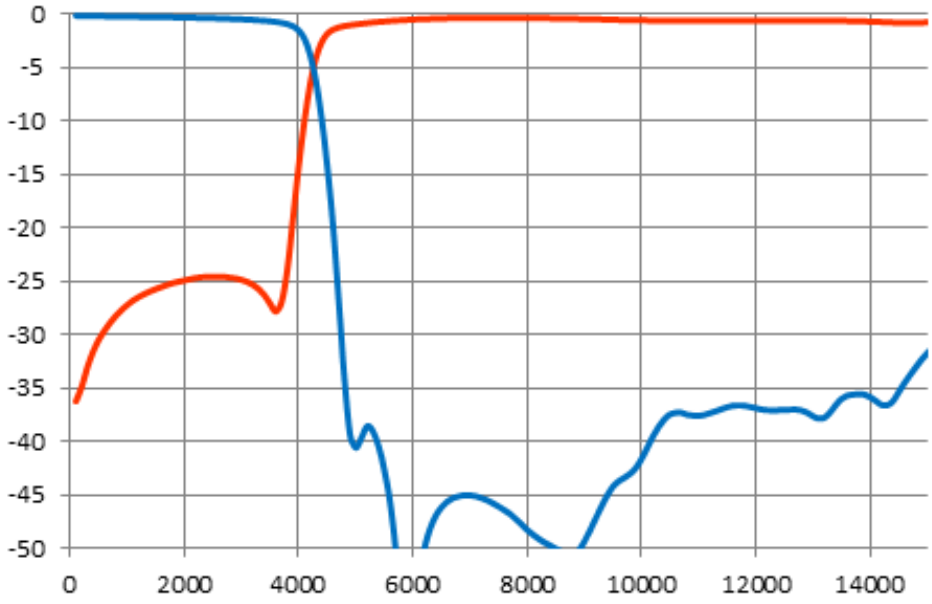


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ELECTRICAL CHARACTERISTICS

LP1206A3300ANTR			
Parameter	**Value**	**Unit**	**Notes**
Passband	3.3	GHz	
Insertion Loss @3.3GHz	-0.7	dB	
R.Loss @3.3GHz	-12	dB	
Rejection @ 6.6 -10GHz	-35	dB	
Rejection @ 10 - 15GHz	-28	dB	
Power Handling	12	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

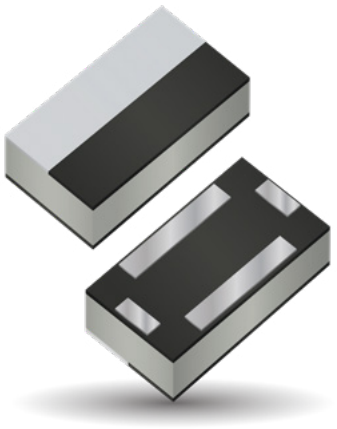
TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

High Performance Low Pass Filters

LP1206A3500ANTR – LGA Termination



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
- Passband: 3500MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Vehicle location systems
- Wireless LAN's
- 5G Application

HOW TO ORDER

LP	1206	A	3500	A	N	TR
Series	Size	Type	Frequency (MHz)	Sub-Type	Termination LGA SN100	Taped & Reeled

FINAL QUALITY INSPECTION

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

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

TERMINATION

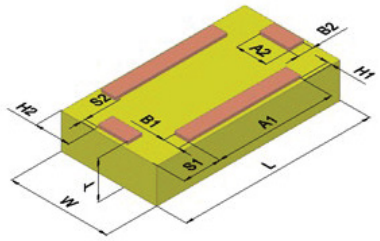
Nickel/ Lead freeSolder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

POWER RATING

12W Continuous

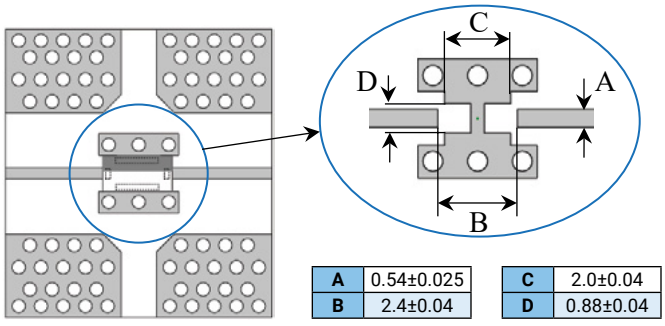
DIMENSIONS: mm (inches)

(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±.06

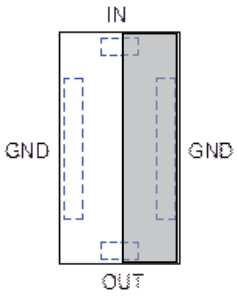
RECOMMENDED PAD LAYOUT: (mm)



A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

TERMINALS:

(Top View)

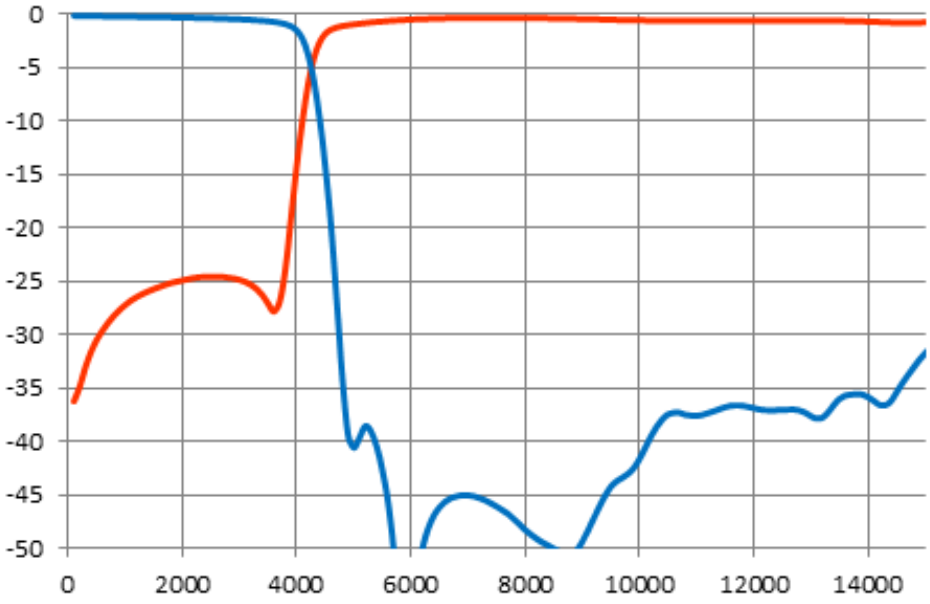


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ELECTRICAL CHARACTERISTICS

LP1206A3500ANTR			
Parameter	**Value**	**Unit**	**Notes**
Passband	3.5	GHz	
Insertion Loss @3.5GHz	-0.7	dB	
R.Loss @3.5GHz	-12	dB	
Rejection @ 6.0-10.5 GHz	-36	dB	
Rejection @ 10.5-15 GHz	-27	dB	
Power Handling	12	W	RF Continuous
Impedance	50	Ohm	
Operating Temp.	-40 to +85	°C	
Size	1206		

TYPICAL ELECTRICAL PERFORMANCE



Thin-Film RF/Microwave Filters

1206 High Performance Low Pass 12W

LP1206A5000ANTR – LGA Termination

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: 5000MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

APPLICATIONS:

- 5G \ UWB
- 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:

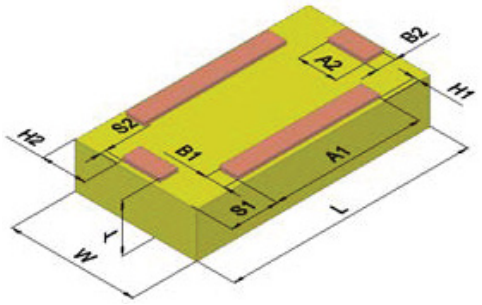
LP 1206 A 5000 ANTR

Frequency (MHz)

POWER RATING:

12W continuous

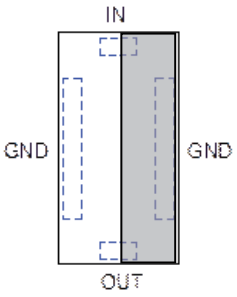
DIMENSIONS - MM (TOP VIEW)



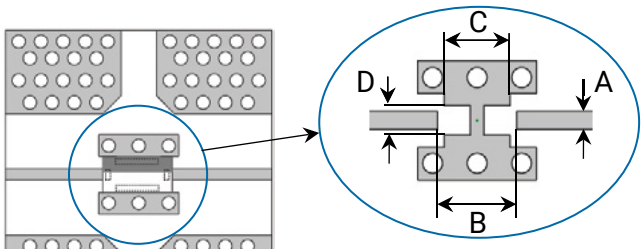
L	3.1±0.1
W	1.6±0.1
T	0.6±0.3
A1	1.9±0.1
A2	0.5±0.1

B1, B2	0.25±0.1
H1	0.06±0.06
H2	0.56±0.10
S1	0.61±0.1
S2	0.06±.06

TERMINALS AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT (MM)

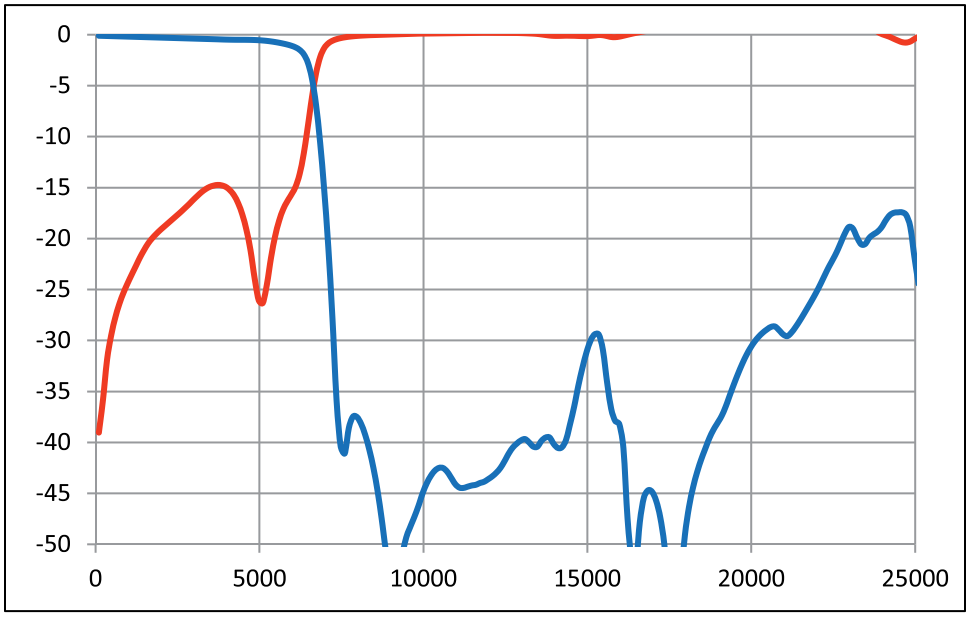


A	0.54±0.025	**C**	2.0±0.04
B	2.4±0.04	**D**	0.88±0.04

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ELECTRICAL CHARACTERISTICS

LP1206A5000ANTR			
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	℃	
Size	1206		



Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 12W
LP1206A5200ANTR – LGA Termination

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: 5200MHz
- Characteristic Impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +85°C
- Low Profile
- Rugged Construction
- Taped and Reeled
- RoHS Compliant

APPLICATIONS:
- 5G \ UWB
- 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

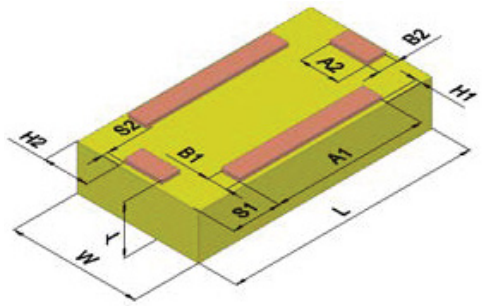
TERMINATION:
Nickel/ Lead-Free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

PART NUMBER CODE:
LP 1206 A 5200 ANTR

Frequency (MHz)

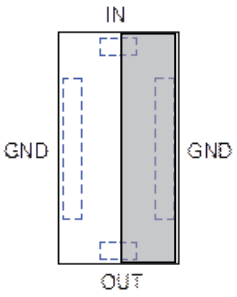
POWER RATING:
12W continuous

DIMENSIONS - MM (TOP VIEW)

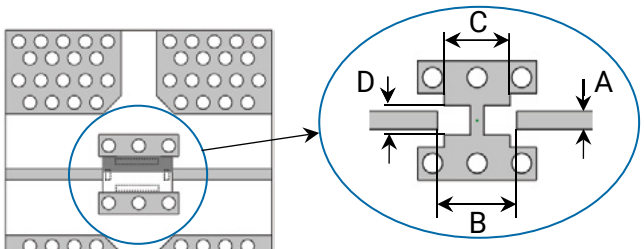


L	3.1±0.1	**B1, B2**	0.25±0.1
W	1.6±0.1	**H1**	0.06±0.06
T	0.6±0.3	**H2**	0.56±0.10
A1	1.9±0.1	**S1**	0.61±0.1
A2	0.5±0.1	**S2**	0.06±.06

TERMINALS AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT (MM)

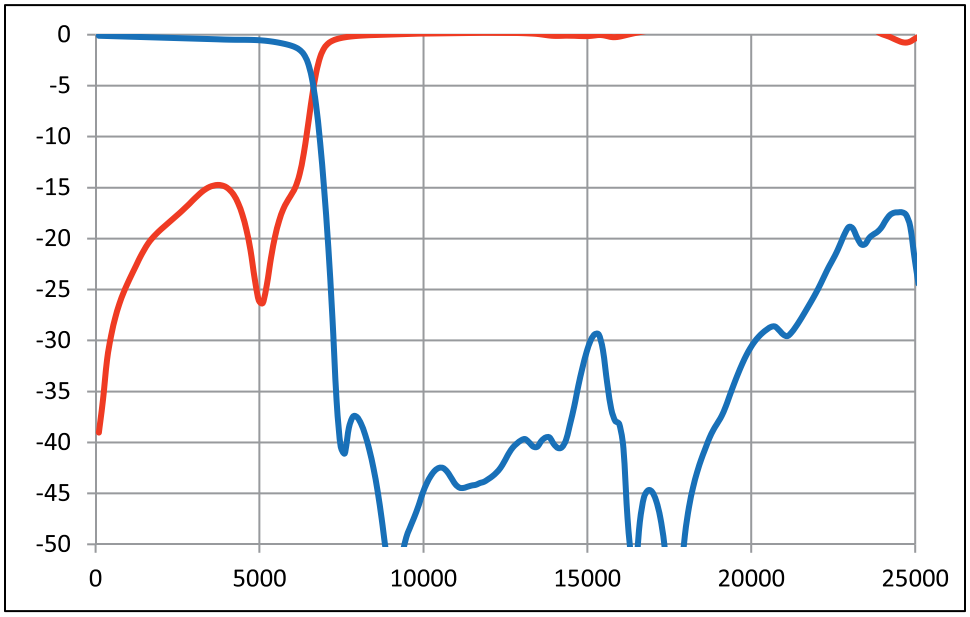


A	0.54±0.025	**C**	2.0±0.04
B	2.4±0.04	**D**	0.88±0.04

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ELECTRICAL CHARACTERISTICS

LP1206A5000ANTR			
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	℃	
Size	1206		



Thin-Film RF/Microwave Filters

1206 High Performance Low Pass 12W

LP1206A5500ANTR – LGA Termination

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: 5500MHz
- Characteristic Impedance: 50Ω
- Operating / Storage Temp: -40°C ÷ +85°C
- Low Profile
- Rugged Construction
- Taped and Reeled
- RoHS Compliant

APPLICATIONS:

- 5G \ UWB
- 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:

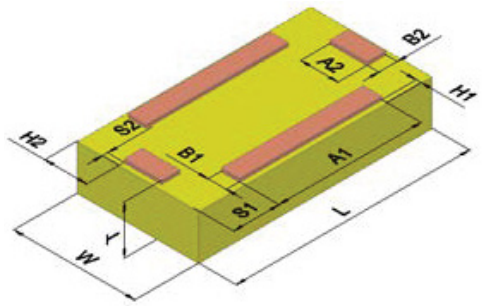
LP 1206 A 5500 ANTR

Frequency (MHz)

POWER RATING:

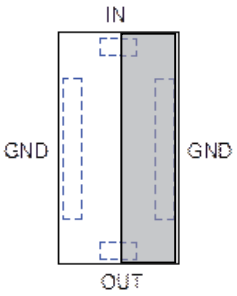
12W continuous

DIMENSIONS - MM (TOP VIEW)

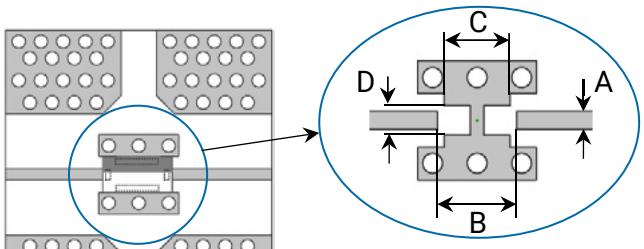


L	3.1±0.1	**B1, B2**	0.25±0.1
W	1.6±0.1	**H1**	0.06±0.06
T	0.6±0.3	**H2**	0.56±0.10
A1	1.9±0.1	**S1**	0.61±0.1
A2	0.5±0.1	**S2**	0.06±.06

TERMINALS AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT (MM)

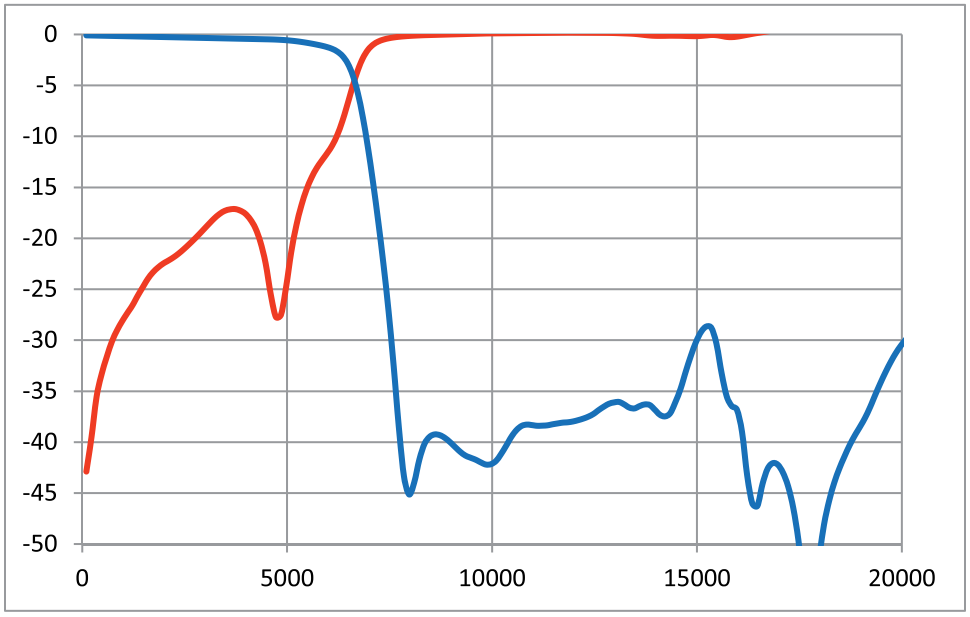


A	0.54±0.025	**C**	2.0±0.04
B	2.4±0.04	**D**	0.88±0.04

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ELECTRICAL CHARACTERISTICS

LP1206A5000ANTR			
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	℃	
Size	1206		



Thin-Film RF/Microwave Filters
1206 High Performance Low Pass 12W
LP1206A6000ANTR – LGA Termination

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: 6000MHz
- Characteristic impedance: 50Ω
- Operating / Storage temp: -40°C ÷ +100°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

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

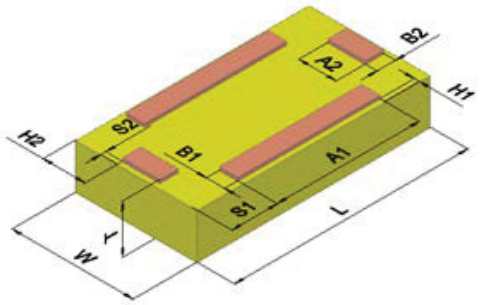
TERMINATION:
Nickel/ Lead-Free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

PART NUMBER CODE:
LP 1206 A XXXX ANTR

Frequency (MHz)

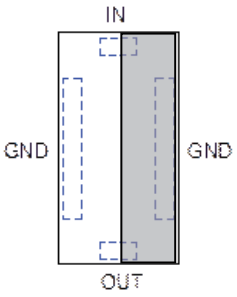
POWER RATING:
12W continuous

DIMENSIONS - MM (INCHES)
(TOP VIEW)

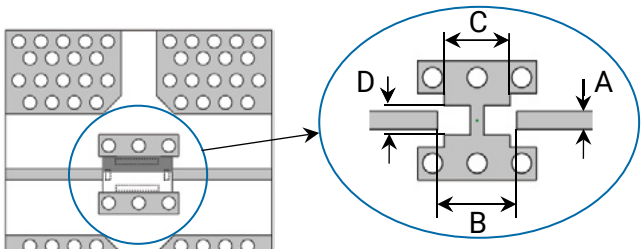


L	3.1±0.1	B1, B2	0.25±0.1
W	1.6±0.1	H1	0.06±0.06
T	0.6±0.3	H2	0.56±0.10
A1	1.9±0.1	S1	0.61±0.1
A2	0.5±0.1	S2	0.06±.06

TERMINALS AND LAYOUT (TOP VIEW)



RECOMMENDED PAD LAYOUT (MM)

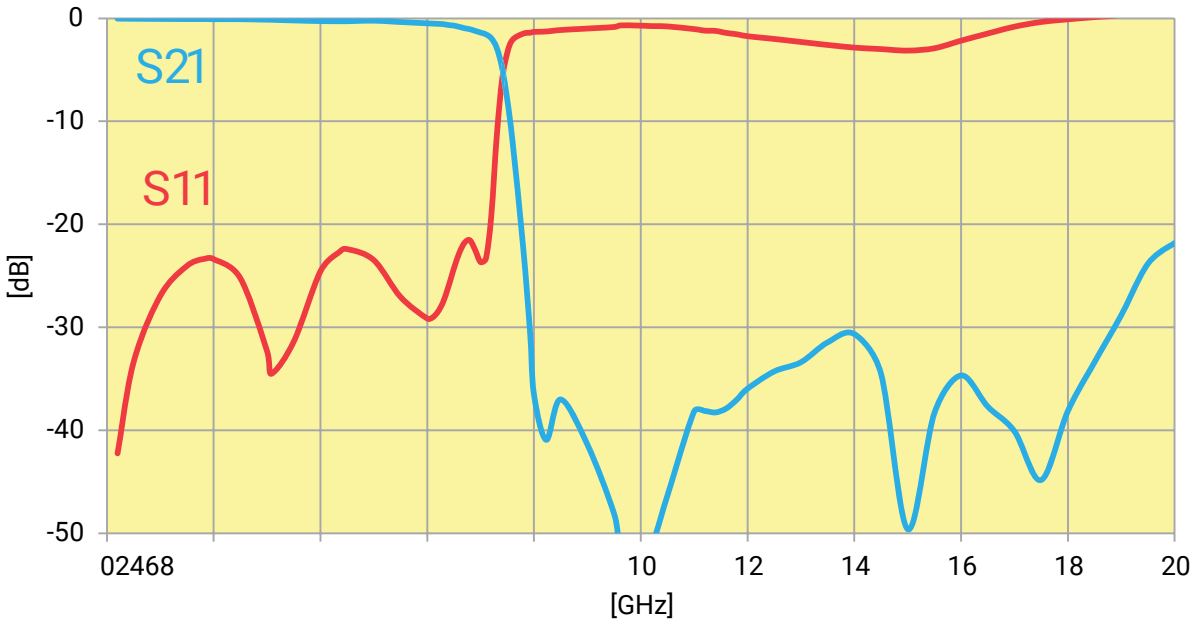


A	0.54±0.025	C	2.0±0.04
B	2.4±0.04	D	0.88±0.04

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ELECTRICAL CHARACTERISTICS

LP1206A6000ANTR			
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		



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