

# High Performance Low Pass Filter



LP1206A0700ANTR



## 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** **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<sub>B</sub>, 4 hours

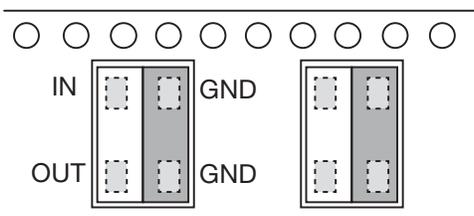
## TERMINATION

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

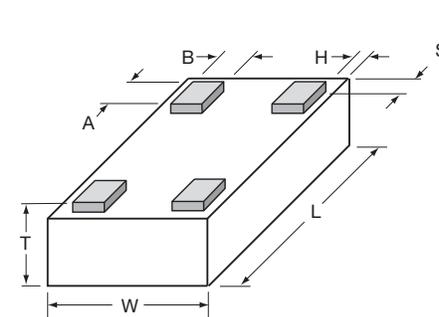
## POWER RATING

3W RF Continuous

## ORIENTATION IN TAPE



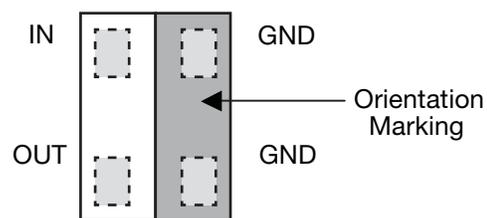
## DIMENSIONS (Bottom View)



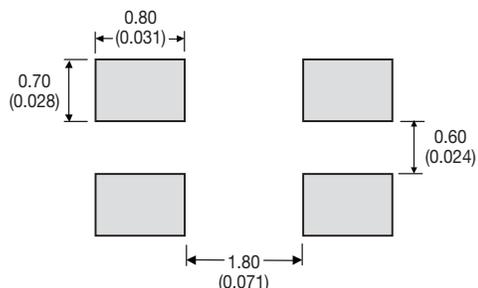
mm (inches)

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)



# High Performance Low Pass Filter

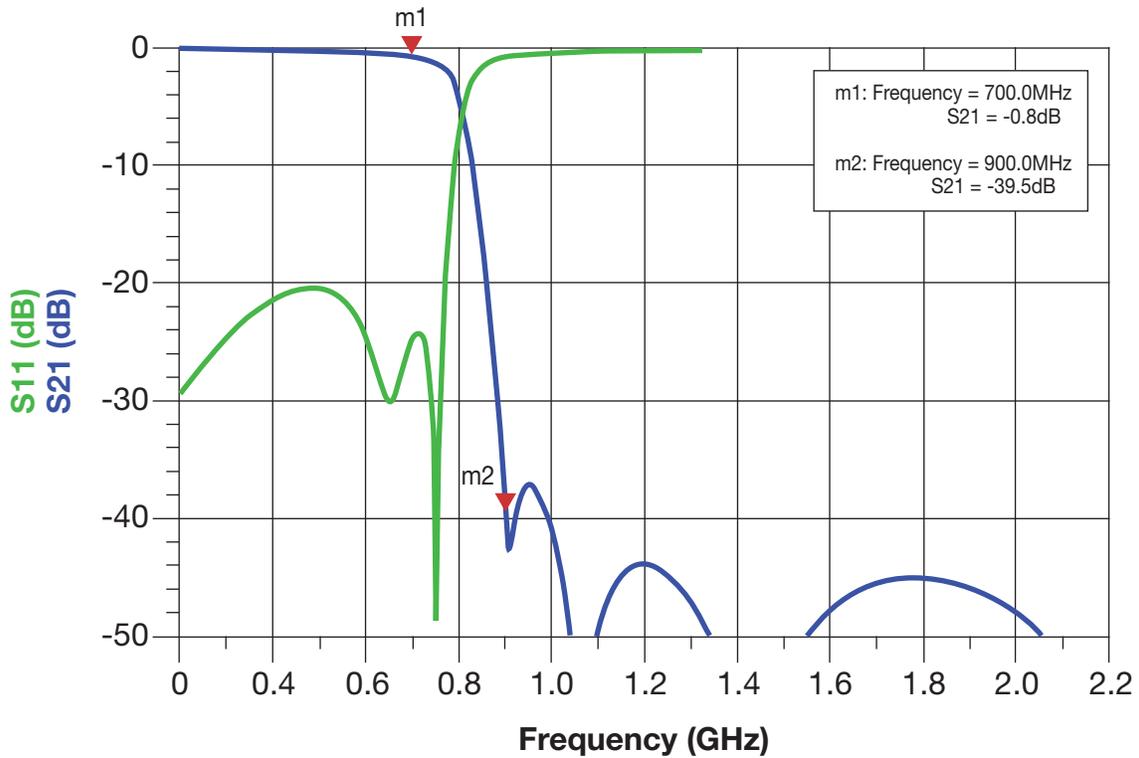


## LP1206A0700ANTR

### 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



# High Performance Harmonic Low Pass Filter



LP1206A0512BNTR



## 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

## FINAL QUALITY INSPECTION

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

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



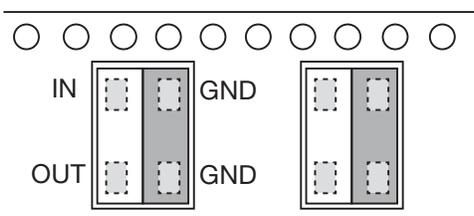
## TERMINATION

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

## POWER RATING

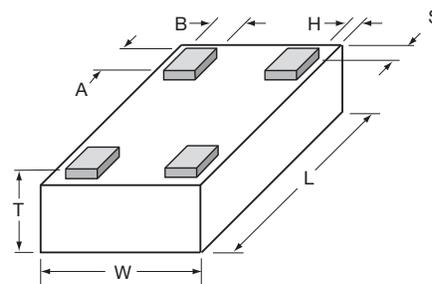
3W RF Continuous

## ORIENTATION IN TAPE



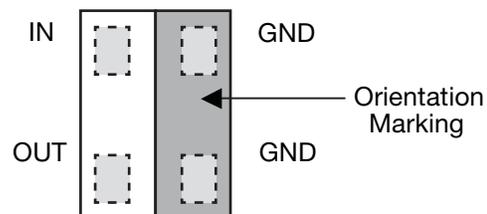
## DIMENSIONS (Bottom View)

mm (inches)

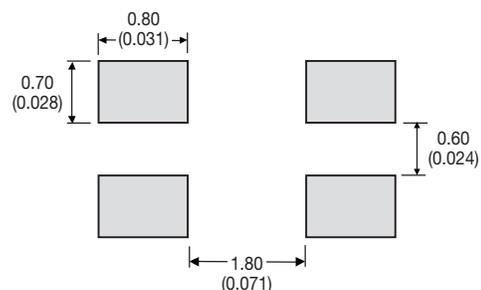


L	3.10±0.10 (0.122±0.004)
W	1.60±0.10 (0.063±0.004)
T	0.60±0.30 (0.024±0.012)
A	0.39±0.10 0.015±0.004
B	0.33±0.10 0.013±0.004
H, S	0.05±0.05 (0.002±0.002)

## TERMINALS (Top View)



## Recommended Pad Layout Dimensions mm (inches)



# High Performance Harmonic Low Pass Filter

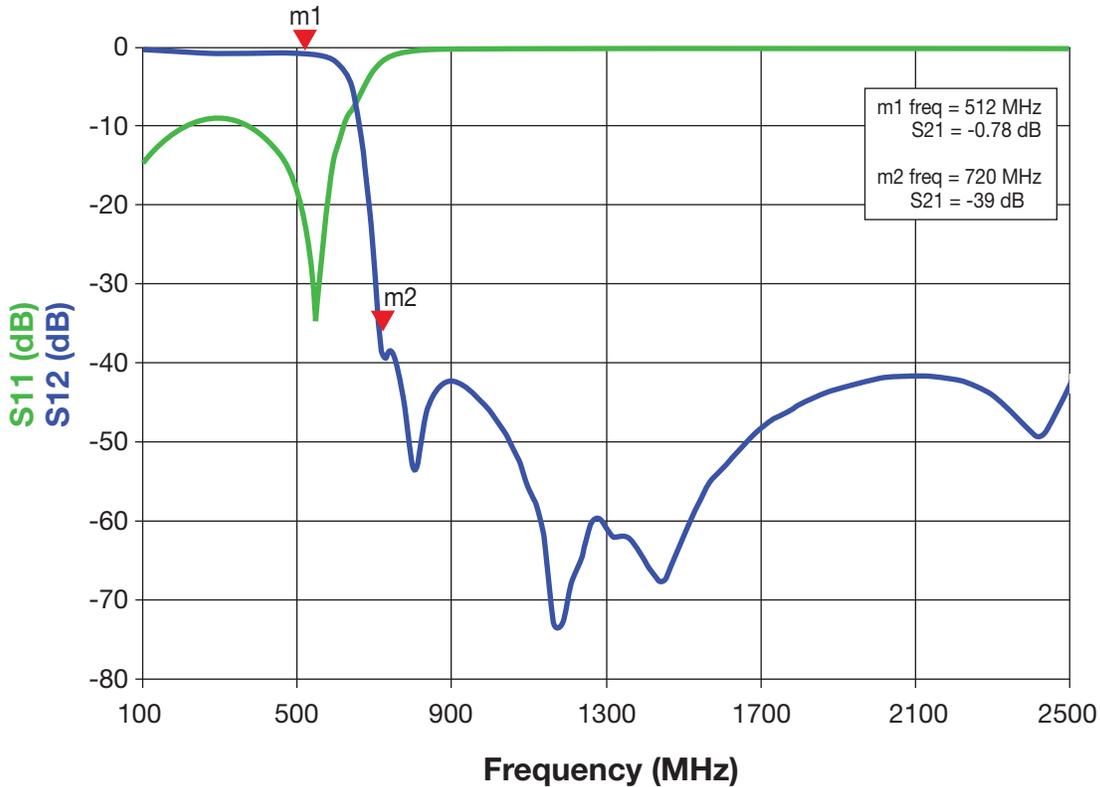


LP1206A0512BNTR

## 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



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