LP0805 High Performance Low Pass Filter LP0805H0700ASTR



HOW TO ORDER

LP	0805	н	0700	Α	S	TR
Т	\top	Т		Т	Т	T
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



E	2.30±0.05	
F	(0.098±0.002)	
G	1.50±0.05	
a	(0.059±0.002)	
	0.19±0.05	
J	(0.007±0.002)	
ĸ	3.48±0.05	
n	(0.137±0.002)	
М	0.54±0.25	
141	(0.021±0.010)	
N	4.48±0.05	
	(0.776±0.002)	
-	0.25±0.05	
F	(0.010±0.002)	
D	0.85±0.05	
n	(0.033±0.002)	
П	0.60±0.05	
5	(0.024±0.002)	

0.50.0.05

ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 700MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Wireless LAN's
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)

APPLICATIONS • Mobile communications Satellite TV receivers

- GPS
- Vehicle location systems





mm (inches)



ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 700MHz	R.Loss @ 700MHz	Attenuation
				-35dB at 1400MHz
LP0805H0700ASTR	700MHz	-0.4dB max.	-20dB	-30dB at 2100MHz
				-30dB at 2800MHz



LP0805 High Performance Low Pass Filter LP0805H0780ASTR



HOW TO ORDER

LP	0805	н	0780	Α	S	TR
Т	\top	Т		Т	Т	T
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



E	2.50±0.05	
F	(0.098±0.002)	
G	1.50±0.05	
a	(0.059±0.002)	
	0.19±0.05	
J	(0.007±0.002)	
ĸ	3.48±0.05	
n	(0.137±0.002)	
М	0.54±0.25	
IVI	(0.021±0.010)	
N	4.48±0.05	
	(0.776±0.002)	
D	0.25±0.05	
F	(0.010±0.002)	
Р	0.85±0.05	
n	(0.033±0.002)	
D	0.60±0.05	
J	(0.024±0.002)	

0.50.0.05

ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 780MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Wireless LAN's
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)

APPLICATIONS • Mobile communications Satellite TV receivers

- GPS
- Vehicle location systems





mm (inches)



ELECTRICAL CHARACTERISTICS

P/N	I.Loss @ 780MHz	R.Loss @ 780MHz	Attenuation
			-35dB at 1560MHz
LP0805H0780ASTR	-0.4dB max.	-20dB	-40dB at 2340MHz
			-20dB at 3120MHz





HOW TO ORDER

LP	0805	н	0942	Α	S	TR
Т	\top	Т		Т	Т	Т
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



E	2.30±0.05	
F	(0.098±0.002)	
G	1.50±0.05	
a	(0.059±0.002)	
	0.19±0.05	
J	(0.007±0.002)	
ĸ	3.48±0.05	
n	(0.137±0.002)	
М	0.54±0.25	
141	(0.021±0.010)	
N	4.48±0.05	
	(0.776±0.002)	
-	0.25±0.05	
F	(0.010±0.002)	
D	0.85±0.05	
n	(0.033±0.002)	
П	0.60±0.05	
5	(0.024±0.002)	

0.50.0.05

ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 942MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Wireless LAN's
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)



mm (inches)

	L	2.03±0.10 (0.080±0.004)
~	w	1.55±0.10 (0.061±0.004)
	т	0.80±0.10 (0.031±0.004)
	Α	0.56±0.25 (0.022±0.010)
	В	0.35±0.15 (0.014±0.006)

APPLICATIONS

• Mobile communications

• Vehicle location systems

Satellite TV receivers

• GPS



ELECTRICAL CHARACTERISTICS

P/N	I.Loss @ 942MHz	R.Loss @ 942MHz	Attenuation
			-35dB at 1884MHz
LP0805H0942ASTR	-0.4dB max.	-20dB	-40dB at 2826MHz
			-35dB at 3768MHz





HOW TO ORDER

LP	0805	н	1000	Α	S	TR
Т	\top	Т		Т	Т	T
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



E	2.30±0.05	
F	(0.098±0.002)	
G	1.50±0.05	
a	(0.059±0.002)	
	0.19±0.05	
J	(0.007±0.002)	
ĸ	3.48±0.05	
n	(0.137±0.002)	
М	0.54±0.25	
141	(0.021±0.010)	
N	4.48±0.05	
	(0.776±0.002)	
-	0.25±0.05	
F	(0.010±0.002)	
D	0.85±0.05	
n	(0.033±0.002)	
П	0.60±0.05	
5	(0.024±0.002)	

0.50.0.05

ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 1000MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Wireless LAN's
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)

mm (inches)

	L	2.03±0.10 (0.080±0.004)
*	W	1.55±0.10 (0.061±0.004)
	т	0.80±0.10 (0.031±0.004)
	Α	0.56±0.25 (0.022±0.010)
	В	0.35±0.15 (0.014±0.006)

APPLICATIONS

• Mobile communications

• Vehicle location systems

Satellite TV receivers

• GPS



ELECTRICAL CHARACTERISTICS

P/N	I.Loss @ 1000MHz	R.Loss @ 1000MHz	Attenuation
LP0805H1000ASTR	-0.7dB max.	-20dB	-35dB at 2000MHz -40dB at 3000MHz -35dB at 4000MHz -30dB at 5000MHz



LP0805 High Performance Low Pass Filter LP0805H1250ASTR



HOW TO ORDER

LP	0805	н	1250	Α	S	TR
Т	\top	Т		Т	Т	T
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



F	2.50±0.05 (0.098±0.002)		
G	1.50±0.05 (0.059±0.002)		
J	0.19±0.05 (0.007±0.002)		
к	3.48±0.05 (0.137±0.002)		
М	0.54±0.25 (0.021±0.010)		
Ν	4.48±0.05 (0.776±0.002)		
Ρ	0.25±0.05 (0.010±0.002)		
R	0.85±0.05 (0.033±0.002)		
D	0.60±0.05 (0.024±0.002)		
	<u> </u>	A	

ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 1250MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Wireless LAN's
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)

• Mobile communications Satellite TV receivers

APPLICATIONS

- GPS
- Vehicle location systems

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mm (inches) 2.03±0.10 L (0.080 ± 0.004) 1.55±0.10 W (0.061 ± 0.004) 0.80±0.10 Т (0.031 ± 0.004) 0.56±0.25 A (0.022±0.010) 0.35±0.15 в

(0.014±0.006)



ELECTRICAL CHARACTERISTICS

P/N	I.Loss @ 1250MHz	R.Loss @ 1250MHz	Attenuation
LP0805H1250ASTR	-0.7dB max.	-25dB	-20dB at 1750MHz -35dB at 2500MHz -40dB at 3750MHz -30dB at 5000MHz



LP0805 High Performance Low Pass Filter LP0805H1800ASTR



HOW TO ORDER

LP	0805	н	1800	Α	S	TR
Т	\top	Т		Т	Т	T
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



F	(0.000.0000)	
	(0.096±0.002)	
G	1.50±0.05	
ŭ	(0.059±0.002)	
	0.19±0.05	
J	(0.007±0.002)	
14	3.48±0.05	
ĸ	(0.137±0.002)	
	0.54±0.25	
IVI	(0.021±0.010)	
N	4.48±0.05	
IN	(0.776±0.002)	
-	0.25±0.05	
Р	(0.010±0.002)	
Б	0.85±0.05	
к	(0.033±0.002)	
D	0.60±0.05	
J	(0.024±0.002)	

2 50+0 05

ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 1800MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Wireless LAN's
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)

APPLICATIONS • Mobile communications

- Satellite TV receivers
- GPS
- Vehicle location systems





mm (inches)



ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 1800MHz	R.Loss @ 1800MHz	Attenuation
				-35dB at 2520MHz
LP0805H1800ASTR	1800MHz	-0.8dB max.	-25dB	-35dB at 3600MHz
				-25dB at 5400MHz



LP0805 High Performance Low Pass Filter LP0805H1900ASTR



HOW TO ORDER

LP	0805	н	1900	Α	S	TR
Т		Т		Т	Т	T
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 1900MHz
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Vehicle location systems
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS

mm (inches)

• Wireless LAN's

<u>w</u>	L	2.03±0.10 (0.080±0.004)
~	w	1.55±0.10 (0.061±0.004)
	т	0.80±0.10 (0.031±0.004)
	Α	0.56±0.25 (0.022±0.010)
	В	0.35±0.15 (0.014±0.006)

TERMINALS AND LAYOUT (Top View)

A



ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 1900MHz	R.Loss @ 1900MHz	Attenuation
	1900MHz	-0.75dB max	-20dB	-35dB at 2660MHz
LI 0003111300A0111	100010112	0.7000 1107.	2000	-25dB at 5700MHz



LP0805 High Performance Low Pass Filter LP0805H2400ASTR



HOW TO ORDER

LP T	0805	H	2400	A T	s T	TR
Series	Size	Туре	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_B, 4 hours

TERMINATION

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

RECOMMENDED PAD LAYOUT mm (inches



ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Frequency: 2400MHz
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
 GPS
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- Vehicle location systems

mm (inches)

• Wireless LAN's

DIMENSIONS (Top View)



TERMINALS AND LAYOUT (Top View)

A

B



ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 2400MHz	R.Loss @ 2400MHz	Attenuation
		100MHz -0.9dB max.	-30dB	-30dB at 3360MHz
LP0805H2400ASTR	2400MHz			-25dB at 4800MHz
				-30dB at 7200MHz





HOW TO ORDER

LP	0805	н	2900	Α	S	TR
Т		Т		Т	Т	\top
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Frequency: 1700-2900MHz
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C GPS
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

APPLICATIONS

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

DIMENSIONS (Top View)

	L	2.03±0.10 (0.080±0.004)
/	w	1.55±0.10 (0.061±0.004)
	т	0.80±0.10 (0.031±0.004)
	Α	0.56±0.25 (0.022±0.010)
	В	0.35±0.15 (0.014±0.006)

mm (inches)

TERMINALS AND LAYOUT (Top View)

A

B



ELECTRICAL CHARACTERISTICS

P/N	I.Loss @ 2900MHz	R.Loss @ 2900MHz	Attenuation
LP0805H2900ASTR			-30dB at 4060MHz
	-1dB max.	-20dB	-30dB at 5800MHz
			-35dB at 6500MHz



LP0805 High Performance Low Pass Filter LP0805H3500ASTR



HOW TO ORDER

LP	0805	н	3500	Α	S	TR
Т		Т		Т	Т	T
Series	Size	Туре	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.

RECOMMENDED PAD LAYOUT mm (inches



ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Small size: 0805
- Frequency: 3500MHz
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C Vehicle location systems
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

DIMENSIONS (Top View)

APPLICATIONS

- Mobile communications
- Satellite TV receivers
- GPS
- Wireless LAN's

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mm (inches)





ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 3500MHz	R.Loss @ 3500MHz	Attenuation
				-35dB at 4900MHz
LP0805H3500ASTR	3500MHz	-0.85dB max.	-20dB	-30dB at 7000MHz
				-30dB at 10500MHz



LP0805 High Performance Low Pass Filter LP0805H4000ASTR



ITF TECHNOLOGY

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic assembly. The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

FEATURES

- Frequency: 4000MHz
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
 GPS

DIMENSIONS (Top View)

- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

APPLICATIONS

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

HOW TO ORDER

LP	0805	н	4000	Α	S	TR
Т		Т		Т	Т	T
Series	Size	Туре	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_B, 4 hours

TERMINATION

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

RECOMMENDED PAD LAYOUT mm (inches



B

A

mm (inches)

L	2.03±0.10 (0.080±0.004)
w	1.55±0.10 (0.061±0.004)
т	0.80±0.10 (0.031±0.004)
A	0.56±0.25 (0.022±0.010)
В	0.35±0.15 (0.014±0.006)
	L W T A B



ELECTRICAL CHARACTERISTICS

P/N	Frequency	I.Loss @ 4000MHz	R.Loss @ 4000MHz	Attenuation
LP0805H4000ASTR	4000MHz	-0.8dB max.	-20dB	-40dB at 5600MHz -35dB at 8000MHz -35dB at 10000MHz -25dB at 12000MHz

