## Low Pass 0805 High Performance SMD 8W

#### LP0805H0400ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

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: 400MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

#### **APPLICATIONS**

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

#### **HOW TO ORDER**



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

#### **TERMINATION**

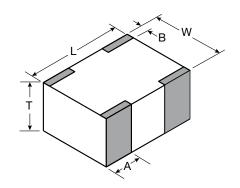
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

# Ε Ε

Dimensions: millimeters

G	0.54
Ν	0.85
Ε	0.63
S	1.5
F	2.5
K	1.5
Ρ	1.0
L	0.5
D	Ø0.6

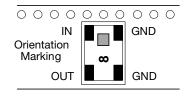
#### **DIMENSIONS (TOP VIEW)**



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)

#### **TERMINALS AND LAYOUT (TOP VIEW)**

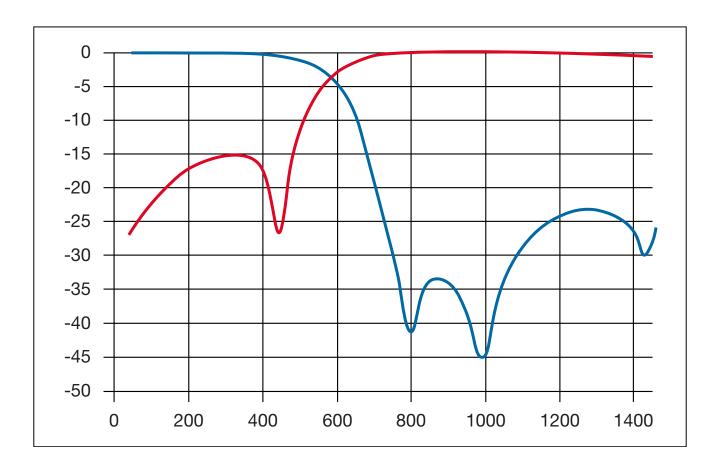


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0400ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

P/N	Frequency	I.Loss @ 400MHz	R.Loss @ 400MHz	Attenuation
LP0805H0400ASTR	400MHz	-0.6dB max.	-15dB	-30dB at 800MHz -20dB at 1200MHz



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W

#### LP0805H0420ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

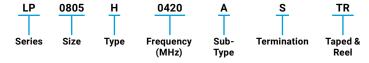
#### **FEATURES**

- Small size: 0805
- Frequency: 420MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

#### **APPLICATIONS**

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

#### **HOW TO ORDER**

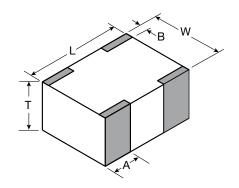


#### **FINAL QUALITY INSPECTION**

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>p</sub>, 4 hours

#### **DIMENSIONS (TOP VIEW)**



mm (menes)				
	2.03±0.10			
	(0.080±0.004)			
14/	1.55±0.10			
W	(0.061±0.004)			
-	0.80±0.10			
	(0.031±0.004)			
Α	0.56±0.25			
A	(0.022±0.010)			
	0.35+0.15			

(0.014±0.006)

mm (inches)

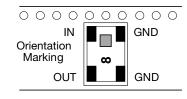
#### **TERMINATION**

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

## Ε S Ε

Dimensions: millimeters

G	0.54
N	0.85
E	0.63
S	1.5
F	2.5
K	1.5
Р	1.0
L	0.5
D	Ø0.6

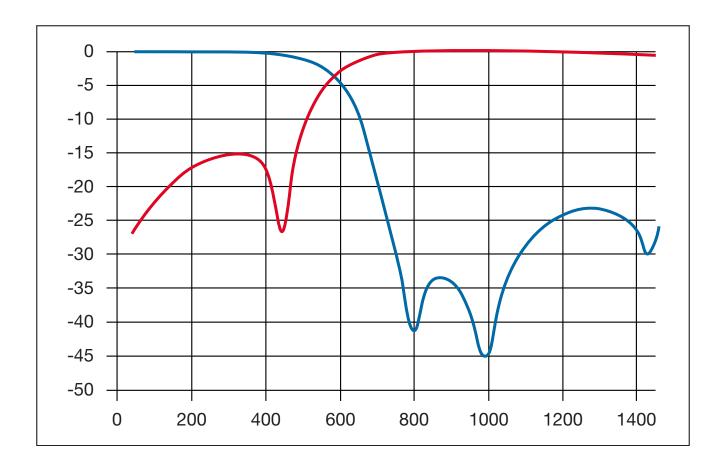


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0420ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

P/N	Frequency	I.Loss @ 700MHz	R.Loss @ 700MHz	Attenuation
LP0805H0420ASTR	420MHz	-0.6dB max.	-15dB	-30dB at 840MHz -20dB at 1260MHz



## Low Pass 0805 High Performance SMD 8W

#### LP0805H0450ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

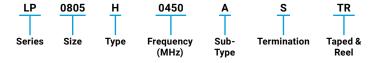
#### **FEATURES**

- Small size: 0805
- Frequency: 450MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

#### **APPLICATIONS**

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

#### **HOW TO ORDER**

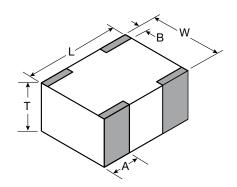


#### **FINAL QUALITY INSPECTION**

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>p</sub>, 4 hours

#### **DIMENSIONS (TOP VIEW)**

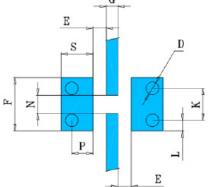


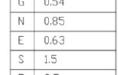
mm (inches)				
L 2.03±0.10 (0.080±0.004)				
w	1.55±0.10 (0.061±0.004)			
Т	0.80±0.10 (0.031±0.004)			
A	0.56±0.25 (0.022±0.010)			
В	0.35±0.15 (0.014±0.006)			

#### **TERMINATION**

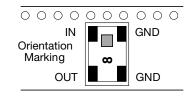
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

## Dimensions: millimeters





N	0.80
E	0.63
S	1.5
F	2.5
K	1.5
Р	1.0
L	0.5
D	Ø0.6

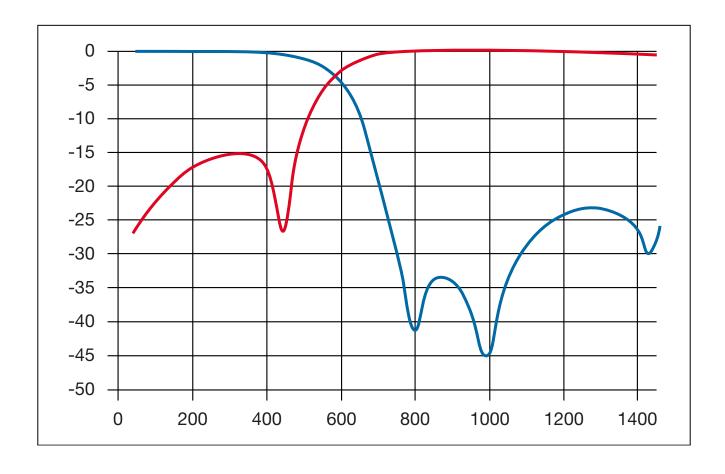


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0450ASTR - SMD Termination



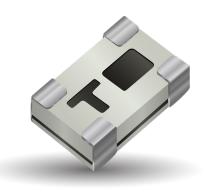
#### **ELECTRICAL CHARACTERISTICS**

P/N	Frequency	I.Loss @ 700MHz	R.Loss @ 700MHz	Attenuation
LP0805H0450ASTR	450MHz	-0.6dB max.	-15dB	-28dB at 900MHz -20dB at 1350MHz



## Low Pass 0805 High Performance SMD 8W LP0805H0470ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

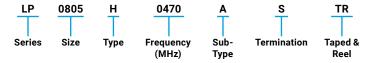
#### **FEATURES**

- Small size: 0805
- Frequency: 470MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

#### **APPLICATIONS**

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

#### **HOW TO ORDER**



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

#### **TERMINATION**

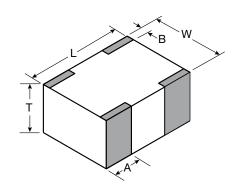
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

## Ε S Ε

Dimensions: millimeters

G	0.54
Ν	0.85
Ε	0.63
S	1.5
F	2.5
K	1.5
Ρ	1.0
L	0.5
D	Ø0.6

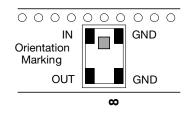
#### **DIMENSIONS (TOP VIEW)**



mm (inches)

٦	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)

#### **TERMINALS AND LAYOUT (TOP VIEW)**



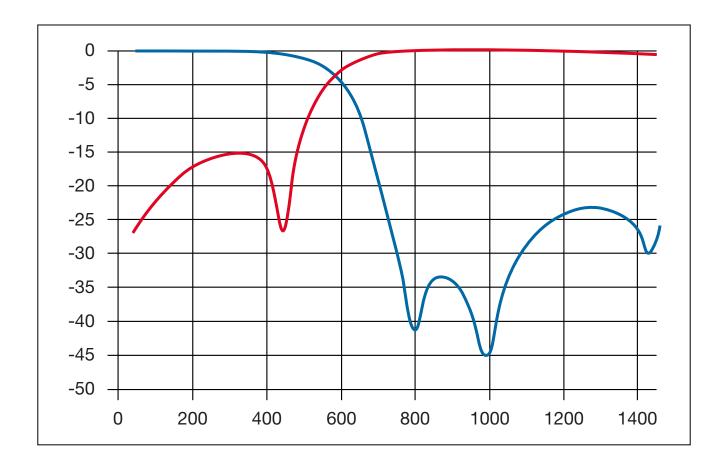
## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0470ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

ı	P/N	Frequency	I.Loss @ 700MHz	R.Loss @ 700MHz	Attenuation
LP0805I	H0470ASTR	470MHz	-0.7dB max.	-15dB	-28dB at 940MHz -20dB at 1410MHz

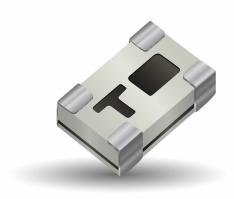
#### **TYPICAL ELECTRICAL PERFORMANCE**



## Low Pass 0805 High Performance SMD 8W

#### LP0805H0512ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

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: 512MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- Low profile
- Rugged construction
- Taped and reeled
- Power handling: 8W

#### **APPLICATIONS**

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

#### **HOW TO ORDER**



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

#### **TERMINATION**

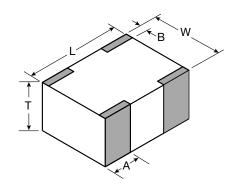
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

## E S E

Dimensions: millimeters

G	0.54	
N	0.85	
E	0.63	
S	1.5	
F	2.5	
K	1.5	
Р	1.0	
L	0.5	
D	Ø0.6	

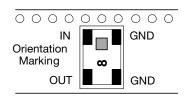
#### **DIMENSIONS (TOP VIEW)**



mm (inches)

٦	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)

#### **TERMINALS AND LAYOUT (TOP VIEW)**



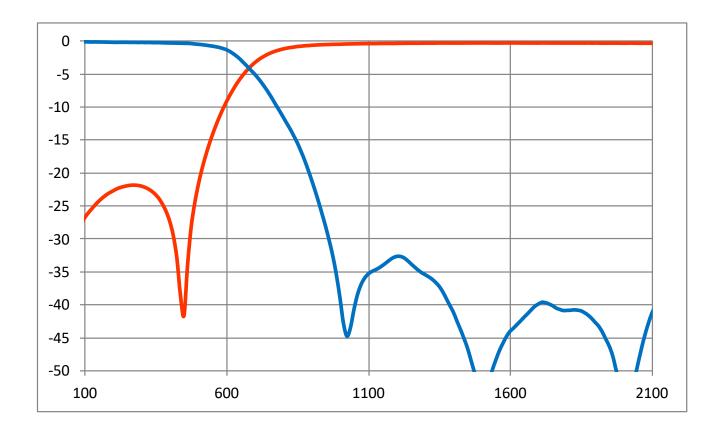
## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0512ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

P/N	Frequency	I.Loss @ 700MHz	R.Loss @ 700MHz	Attenuation
LP0805H0512ASTR	512MHz	-0.75dB max.	-12dB	-35dB at 1024MHz -40dB at 1536MHz

#### **TYPICAL ELECTRICAL PERFORMANCE**



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W

#### LP0805H0700ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

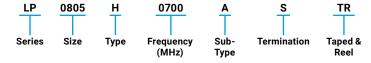
#### **FEATURES**

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

#### **APPLICATIONS**

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

#### **HOW TO ORDER**



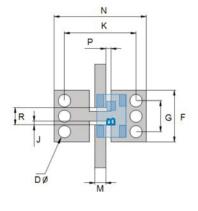
#### **FINAL QUALITY INSPECTION**

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>p</sub>, 4 hours

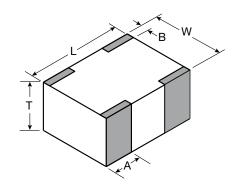
#### **TERMINATION**

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

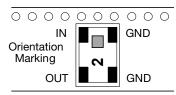


F	2.50±0.05 (0.098±0.002)
G	1.50±0.05 (0.059±0.002)
J	0.19±0.05 (0.007±0.002)
K	3.48±0.05 (0.137±0.002)
М	0.54±0.25 (0.021±0.010)
N	4.48±0.05 (0.776±0.002)
Р	0.25±0.05 (0.010±0.002)
R	0.85±0.05 (0.033±0.002)
D	0.60±0.05 (0.024±0.002)

#### **DIMENSIONS (TOP VIEW)**



mm (inches)				
2.03±0.10				
_	(0.080±0.004)			
14/	1.55±0.10			
W	(0.061±0.004)			
-	0.80±0.10			
	(0.031±0.004)			
Δ	0.56±0.25			
A	(0.022±0.010)			
В	0.35±0.15			
В	(0.014±0.006)			

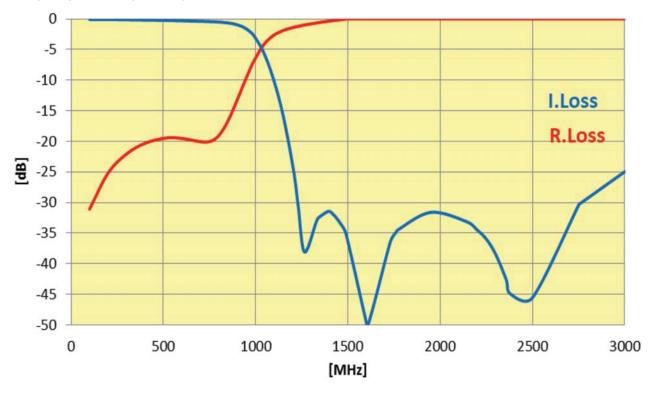


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0700ASTR - SMD Termination



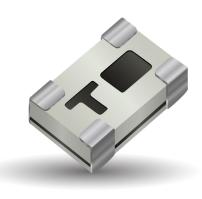
#### **ELECTRICAL CHARACTERISTICS**

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



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W LP0805H0750ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

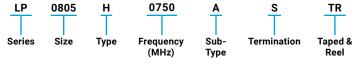
#### **FEATURES**

- Small size: 0805
- Characteristic impedance:  $50\Omega$
- Frequency band: Band 13 746-756MHz
- Operating / Storage temp: -40°C +85°C
- Low profile
- Rugged construction
- Taped and reeled
- RoHS compliant

#### **APPLICATIONS**

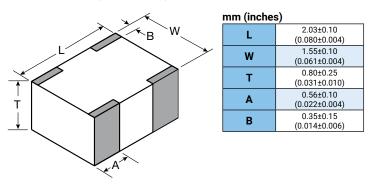
- · Mobile communications
- Satellite TV receivers
- GPS
- · Vehicle location systems
- · Wireless LAN's

#### **HOW TO ORDER**





#### **DIMENSIONS (TOP VIEW)**



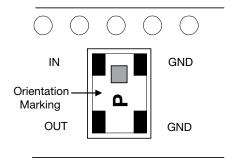
#### **FINAL QUALITY INSPECTION**

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>R</sub>, 4 hours

#### **TERMINATION**

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

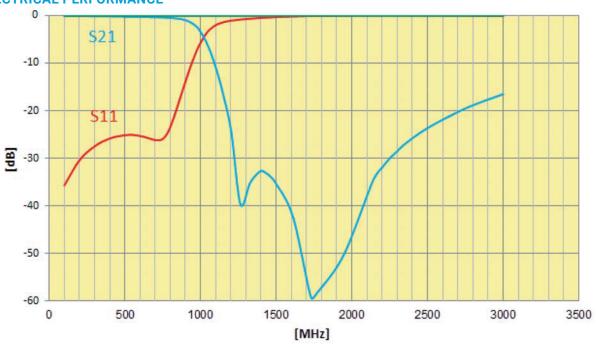


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0750ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

Part Number	Frequency (MHz)	I.Loss max	VSWR max.	Attenuation (dB)
LP0805H0750ASTR	Band 13 DL (746-756MHz)	-0.4dB	1.7	2d Harmonic 1492-1512MHz: -37dB 3d Harmonic 2238-2268MHz: -33dB



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W

#### LP0805H0780ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

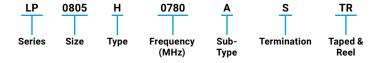
#### **FEATURES**

- Small size: 0805
- Frequency: 780MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### **FINAL QUALITY INSPECTION**

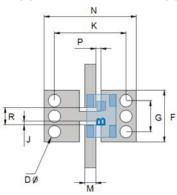
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample hasis for

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

#### **TERMINATION**

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

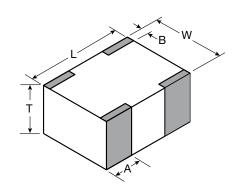
#### **RECOMMENDED PAD LAYOUT:**



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) K 3.48±0.05 (0.137±0.002) M 0.54±0.25 (0.021±0.010) N 4.48±0.05 (0.776±0.002) P 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)		
G (0.059±0.002)  J 0.19±0.05 (0.007±0.002)  K 3.48±0.05 (0.137±0.002)  M 0.54±0.25 (0.021±0.010)  N 4.48±0.05 (0.776±0.002)  P 0.25±0.05 (0.010±0.002)  R 0.85±0.05 (0.033±0.002)  D 0.60±0.05	F	
J     (0.007±0.002)       K     3.48±0.05 (0.137±0.002)       M     0.54±0.25 (0.021±0.010)       N     4.48±0.05 (0.776±0.002)       P     0.25±0.05 (0.010±0.002)       R     0.85±0.05 (0.033±0.002)       D     0.60±0.05	G	
M (0.137±0.002)  M (0.54±0.25 (0.021±0.010)  N (4.48±0.05 (0.776±0.002)  P (0.25±0.05 (0.010±0.002)  R (0.83±0.005 (0.033±0.002)  D (0.60±0.05	J	
M (0.021±0.010)  N 4.48±0.05 (0.776±0.002)  P 0.25±0.05 (0.010±0.002)  R 0.85±0.05 (0.033±0.002)  D 0.60±0.05	K	
N (0.776±0.002) P 0.25±0.05 (0.10±0.002) R 0.85±0.05 (0.033±0.002) D 0.60±0.05	М	
R (0.010±0.002) R (0.035±0.05 (0.033±0.002) 0.60±0.05	N	
(0.033±0.002) 0.60±0.05	Р	
D	R	
	D	

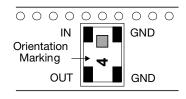
mm (inches)

#### **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)
A	0.56±0.25 (0.022±0.010)
В	0.35±0.15 (0.014±0.006)

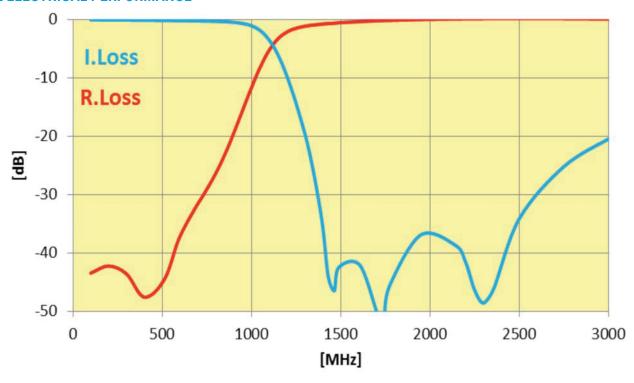


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0780ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

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



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W

#### LP0805H0942ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

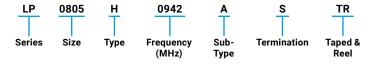
#### **FEATURES**

- Small size: 0805
- Frequency: 942MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### FINAL QUALITY INSPECTION

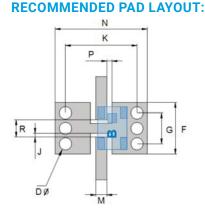
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

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

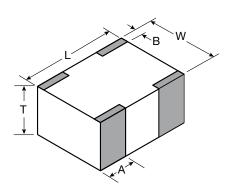
#### **TERMINATION**

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

#### mm (inches)

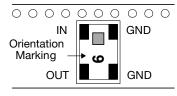


#### **DIMENSIONS (TOP VIEW)**



#### 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)

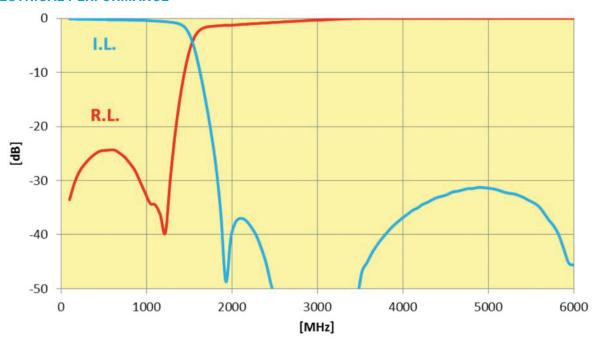


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H0942ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

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



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W LP0805H1000ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

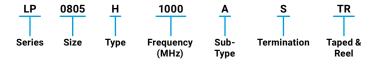
#### **FEATURES**

- Small size: 0805
- Frequency: 1000MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### FINAL QUALITY INSPECTION

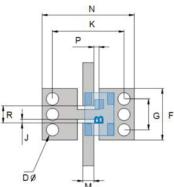
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

- · 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.

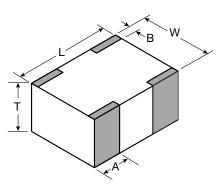
#### **RECOMMENDED PAD LAYOUT:**



F	2.50±0.05
	(0.098±0.002)
G	1.50±0.05
G	(0.059±0.002)
.i	0.19±0.05
J	(0.007±0.002)
К	3.48±0.05
Ι.	(0.137±0.002)
N4	0.54±0.25
М	(0.021±0.010)
N	4.48±0.05
	(0.776±0.002)
P	0.25±0.05
	(0.010±0.002)
R	0.85±0.05
ĸ	(0.033±0.002)
D	0.60±0.05
U	(0.024±0.002)

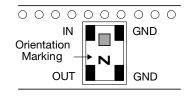
mm (inches)

#### **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)
A	0.56±0.25 (0.022±0.010)
В	0.35±0.15 (0.014±0.006)

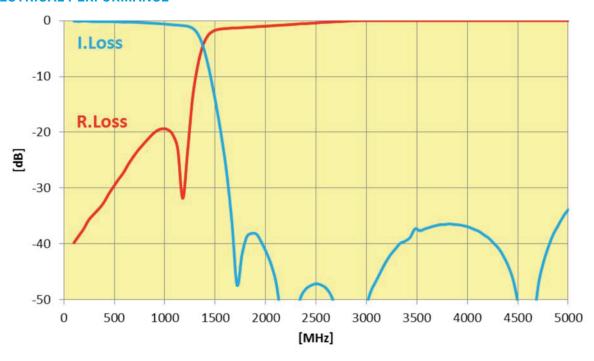


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H1000ASTR - SMD Termination



#### **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



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W LP0805H1250ASTR - SMD Termination

## **K**YOCERa



#### **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

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

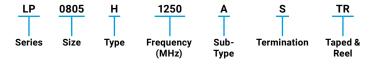
#### **FEATURES**

- Small size: 0805
- Frequency: 1250MHz
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### FINAL QUALITY INSPECTION

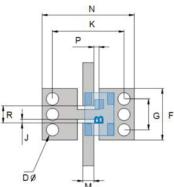
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

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

#### **TERMINATION**

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

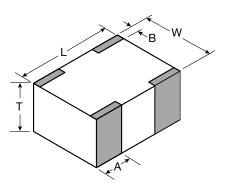
#### **RECOMMENDED PAD LAYOUT:**



F	2.50±0.05
	(0.098±0.002)
G	1.50±0.05
G	(0.059±0.002)
al .	0.19±0.05
י	(0.007±0.002)
К	3.48±0.05
K	(0.137±0.002)
М	0.54±0.25
IVI	(0.021±0.010)
N	4.48±0.05
IN	(0.776±0.002)
Р	0.25±0.05
_	(0.010±0.002)
R	0.85±0.05
ĸ	(0.033±0.002)
D	0.60±0.05
ט	(0.024±0.002)

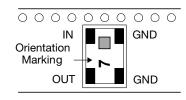
mm (inches)

#### **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)
A	0.56±0.25 (0.022±0.010)
В	0.35±0.15 (0.014±0.006)

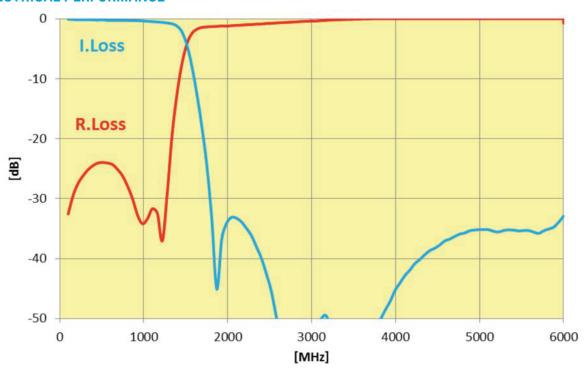


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H1250ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

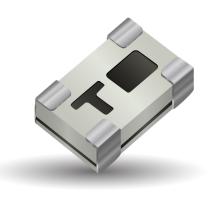
P/N	I.Loss @1250MHz	R.Loss @ 1250MHz	Attenuation
LP0805H1250ASTR	-0.7dB max.	-25dB	-20dB at 1750MHz -35dB at 2500MHz -40dB at 3750MHz -30dB at 5000MHz



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W

LP0805H1800ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

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
- 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	1800	Α	S	TR
Series	Size	Туре	Frequency (MHz)	Sub- Type	Termination	Taped 8 Reel

#### FINAL QUALITY INSPECTION

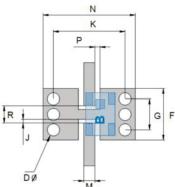
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

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

#### **TERMINATION**

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

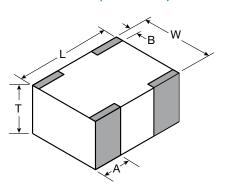
#### **RECOMMENDED PAD LAYOUT:**



F	2.50±0.05
	(0.098±0.002)
G	1.50±0.05
G	(0.059±0.002)
al .	0.19±0.05
J	(0.007±0.002)
К	3.48±0.05
	(0.137±0.002)
М	0.54±0.25
IVI	(0.021±0.010)
N	4.48±0.05
14	(0.776±0.002)
P	0.25±0.05
	(0.010±0.002)
R	0.85±0.05
R	(0.033±0.002)
D	0.60±0.05
U	(0.024±0.002)

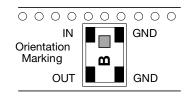
mm (inches)

#### **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)

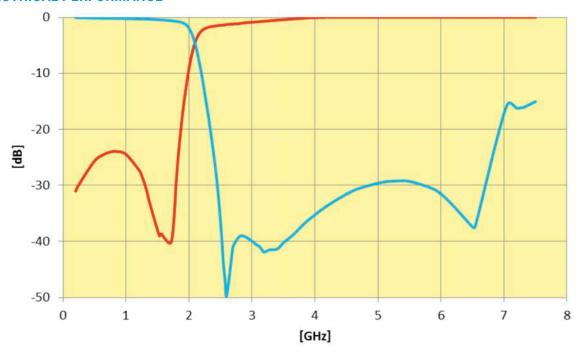


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H1800ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

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



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W LP0805H1900ASTR - SMD Termination

## **K**YOCERa



#### **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

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
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### FINAL QUALITY INSPECTION

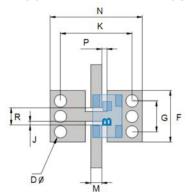
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

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

#### **TERMINATION**

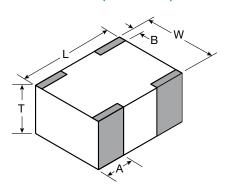
Nickel/ Lead free Solder coating (Sn100) compatible with automatic soldering technologies: reflow, wave soldering, vapor phase and manual.

#### **RECOMMENDED PAD LAYOUT:** mm (inches)



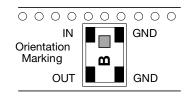
F 2.50±0.05 (0.098±0.002) G 1.50±0.05 (0.059±0.002) J 0.19±0.05 (0.007±0.002) K 3.48±0.05 (0.137±0.002) M 0.54±0.25 (0.021±0.010) N 4.48±0.05 (0.776±0.002) P 0.25±0.05 (0.010±0.002) R 0.85±0.05		
G 1.50±0.05 (0.059±0.002) J 0.19±0.05 (0.007±0.002) K 3.48±0.05 (0.137±0.002) M 0.54±0.25 (0.021±0.010) N 4.48±0.05 (0.776±0.002) P 0.25±0.05 (0.010±0.002)	F	
G (0.059±0.002)  J 0.19±0.05 (0.007±0.002)  K 3.48±0.05 (0.137±0.002)  M 0.54±0.25 (0.021±0.010)  N 4.48±0.05 (0.776±0.002)  P 0.25±0.05 (0.010±0.002)		(0.098±0.002)
(0.059±0.002)  J (0.19±0.05 (0.007±0.002)  K (3.48±0.05 (0.137±0.002)  M (0.021±0.010)  N (4.48±0.05 (0.776±0.002)  P (0.25±0.05 (0.010±0.002)	_	1.50±0.05
M (0.007±0.002)  M (0.137±0.002)  M (0.137±0.002)  M (0.021±0.010)  N (4.48±0.05 (0.776±0.002)  P (0.25±0.05 (0.010±0.002)	5	(0.059±0.002)
M (0.007±0.002)  M (0.137±0.002)  M (0.21±0.010)  N (4.48±0.05 (0.776±0.002)  P (0.21±0.010)  O (0.10±0.002)  O (0.10±0.002)		0.19±0.05
M (0.137±0.002) M (0.54±0.25 (0.021±0.010) N (4.48±0.05 (0.776±0.002) P (0.25±0.05 (0.010±0.002)	J	(0.007±0.002)
M (0.13/40.002) M (0.54±0.25 (0.021±0.010) N (4.48±0.05 (0.776±0.002) P (0.25±0.05 (0.010±0.002)	V	3.48±0.05
M (0.021±0.010)  N 4.48±0.05 (0.776±0.002)  P 0.25±0.05 (0.010±0.002)	K	(0.137±0.002)
N 4.48±0.05 (0.776±0.002) P 0.25±0.05 (0.010±0.002)		0.54±0.25
N (0.776±0.002) P (0.25±0.05 (0.010±0.002)	IVI	(0.021±0.010)
P (0.776±0.002) 0.25±0.05 (0.010±0.002)	N	4.48±0.05
(0.010±0.002)		(0.776±0.002)
(0.010±0.002)	_	0.25±0.05
0.85±0.05	4	(0.010±0.002)
	_	0.85±0.05
(0.033±0.002)	ĸ	(0.033±0.002)
0.60±0.05	_	0.60±0.05
(0.024±0.002)	ט	(0.024±0.002)

#### **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)

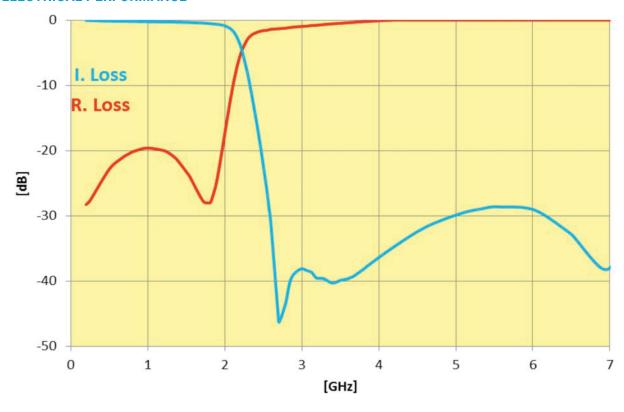


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H1900ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

P/N	Frequency	I.Loss @1900MHz	R.Loss @ 1900MHz	Attenuation
LP0805H1900ASTR	1900MHz	-0.75dB max.	-20dB	-35dB at 2660MHz -35dB at 3800MHz -25dB at 5700MHz



## Thin-Film RF/Microwave Filters Low Pass 0805 High Performance SMD 8W

### LP0805H2400ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

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
- Sharp attenuation slope
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### FINAL QUALITY INSPECTION

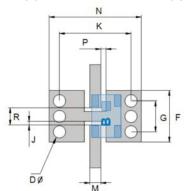
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

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

#### **TERMINATION**

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

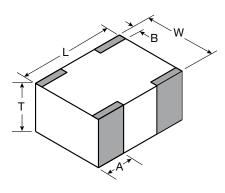
#### **RECOMMENDED PAD LAYOUT:**



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)
N	4.48±0.05 (0.776±0.002)
P R	0.25±0.05 (0.010±0.002)
	0.85±0.05 (0.033±0.002)
D	0.60±0.05 (0.024±0.002)
	(0.024±0.002)

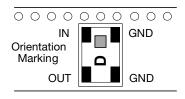
mm (inches)

#### **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)	

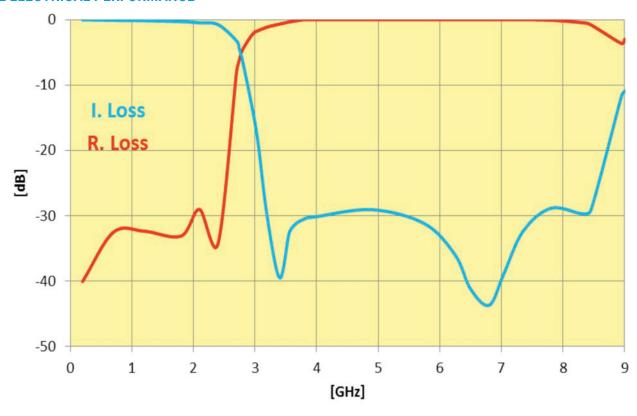


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H2400ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

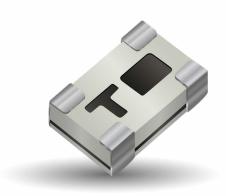
P/N	Frequency	I.Loss @2400MHz	R.Loss @ 2400MHz	Attenuation
LP0805H2400ASTR	2400MHz	-0.9dB max.	-30dB	-30dB at 3360MHz -25dB at 4800MHz -30dB at 7200MHz



## Low Pass 0805 High Performance SMD 8W

#### LP0805H2900ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

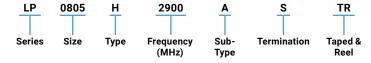
#### **FEATURES**

- Frequency: 1700-2900MHz
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### **FINAL QUALITY INSPECTION**

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

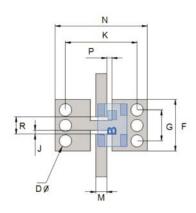
- · Static Humidity: 85°C, 85% RH, 160 hours
- Endurance: 125°C, I<sub>D</sub>, 4 hours

### **TERMINATION**

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

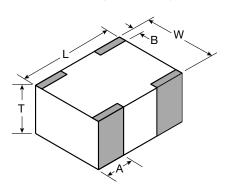
#### **RECOMMENDED PAD LAYOUT:**

mm (inches)



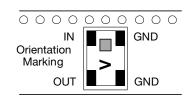
F	2.50±0.05
F	(0.098±0.002)
G	1.50±0.05
G	(0.059±0.002)
.1	0.19±0.05
J	(0.007±0.002)
к	3.48±0.05
, n	(0.137±0.002)
М	0.54±0.25
IVI	(0.021±0.010)
N	4.48±0.05
IN	(0.776±0.002)
Р	0.25±0.05
P	(0.010±0.002)
R	0.85±0.05
, A	(0.033±0.002)
D	0.60±0.05
	(0.024±0.002)

#### **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)

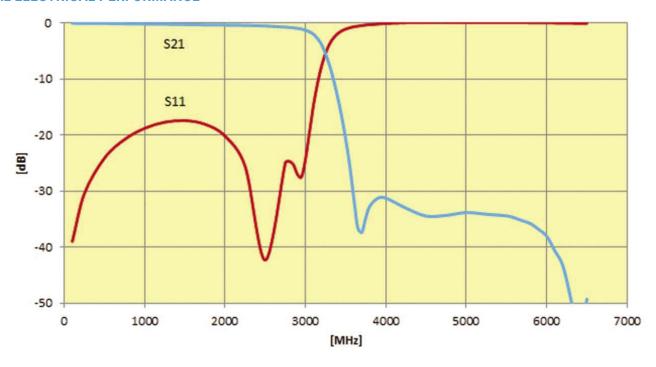


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H2900ASTR - SMD Termination



#### **ELECTRICAL CHARACTERISTICS**

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



## Low Pass 0805 High Performance SMD 8W

#### LP0805H3500ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

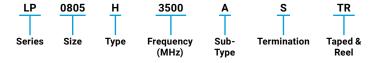
#### **FEATURES**

- Small size: 0805
- Frequency: 3500MHz
- Characteristic impedance: 500hm
- Operating / Storage temp: -40°C +100°C
- 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**



#### FINAL QUALITY INSPECTION

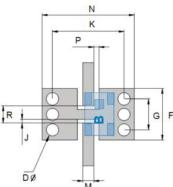
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

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

#### **TERMINATION**

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

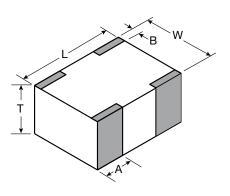
#### **RECOMMENDED PAD LAYOUT:**



F	2.50±0.05
Г	(0.098±0.002)
G	1.50±0.05
G	(0.059±0.002)
.1	0.19±0.05
J	(0.007±0.002)
К	3.48±0.05
N.	(0.137±0.002)
М	0.54±0.25
IVI	(0.021±0.010)
N	4.48±0.05
IN	(0.776±0.002)
Р	0.25±0.05
L	(0.010±0.002)
R	0.85±0.05
ĸ	(0.033±0.002)
D	0.60±0.05
U	(0.024±0.002)

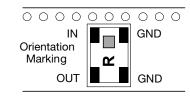
mm (inches)

#### **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)
A	0.56±0.25 (0.022±0.010)
В	0.35±0.15 (0.014±0.006)

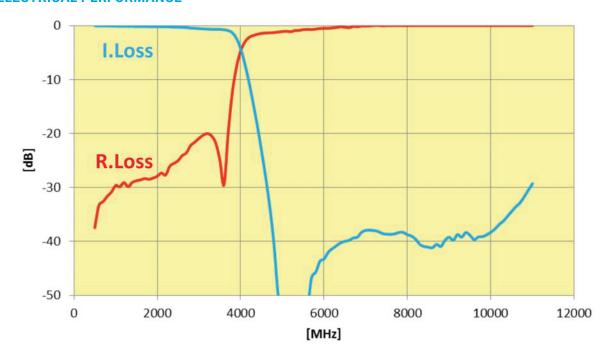


## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H3500ASTR - SMD Termination



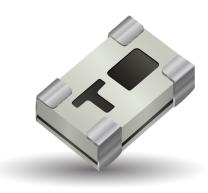
#### **ELECTRICAL CHARACTERISTICS**

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



## Low Pass 0805 High Performance SMD 8W LP0805H4000ASTR - SMD Termination





#### **ITF TECHNOLOGY**

The ITF SMD Filter is based on thin-film multilayer technology. The technology provides a miniature part with excellent high frequency performance and rugged construction for reliable automatic

The ITF Filter is offered in a variety of frequency bands compatible with various types of high frequency wireless systems.

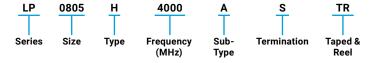
#### **FEATURES**

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



#### FINAL QUALITY INSPECTION

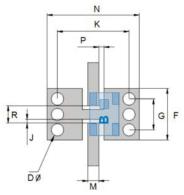
Finished parts are 100% tested for electrical parameters and visual/ mechanical characteristics. Each production lot is evaluated on a sample

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

#### **TERMINATION**

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

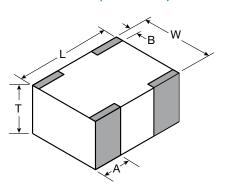
#### **RECOMMENDED PAD LAYOUT:**



F	2.50±0.05 (0.098±0.002)
	, ,
G	1.50±0.05
_	(0.059±0.002)
.1	0.19±0.05
J	(0.007±0.002)
1/	3.48±0.05
K	(0.137±0.002)
	0.54±0.25
М	(0.021±0.010)
N	4.48±0.05
N	(0.776±0.002)
P	0.25±0.05
Р	(0.010±0.002)
R	0.85±0.05
R	(0.033±0.002)
D	0.60±0.05
U	(0.024±0.002)
	•

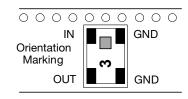
mm (inches)

#### **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)			



## **Thin-Film RF/Microwave Filters** Low Pass 0805 High Performance SMD 8W LP0805H4000ASTR - SMD Termination



#### **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

