

## HD26186

## 902-928MHz Band Pass Filter

### Features

- Center Frequency: 915MHz
- Pass Band: 902 – 928MHz
- Insertion Loss: 1.5dB
- Input/Output Impedance: 50Ω
- Maximum Input Power: 2W
- 3-Pole Ceramic Technology
- SMA Connector



### Description

HD26186 is a 3-pole ceramic 902-928MHz Band Pass Filter for 900MHz ISM Band application.

### Electrical Specifications @ +25 °C, $Z_S = Z_L = 50 \Omega$

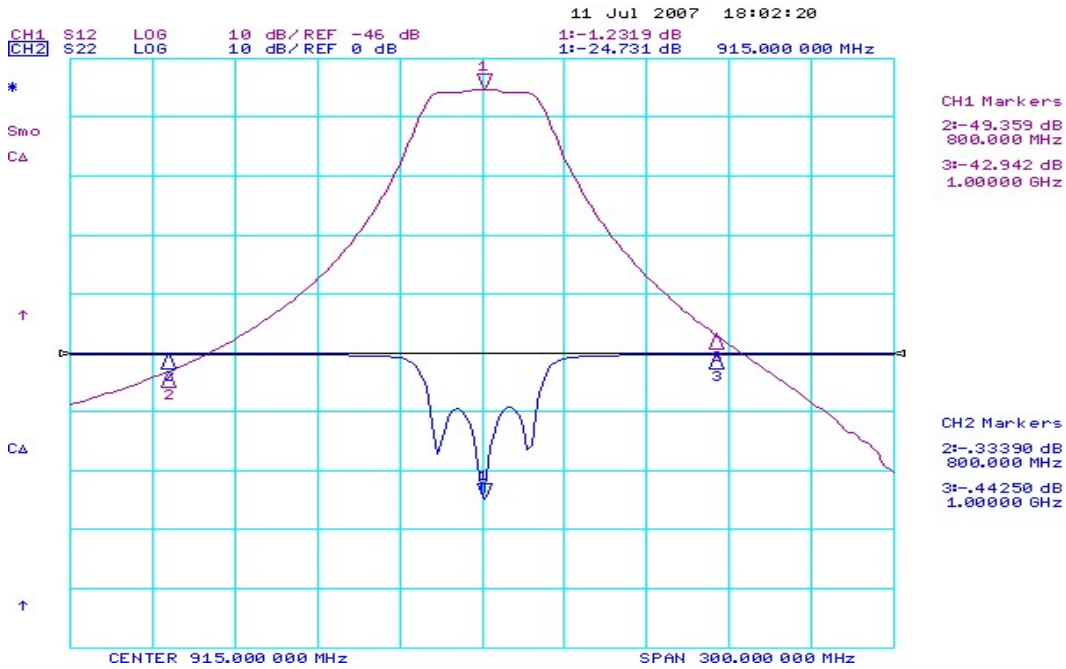
Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	902		928
Center Frequency	MHz		915	
Insertion Loss	dB		1.5	
Rejection at 800MHz	dB		45	
Rejection at 1000MHz	dB		40	
Maximum Input Power	W		2.0	
Input/output impedance	$\Omega$		50	
Group Delay	ns		20	
Group Delay Ripple	ns		±1.5	
VSWR	Input VSWR Output VSWR		2.0:1 2.0:1	
Size (excluding SMA connectors)	inch	1.25" x 1.25" x 0.56"		
Weight	Oz	1.5		

Note: Input and output are interchangeable

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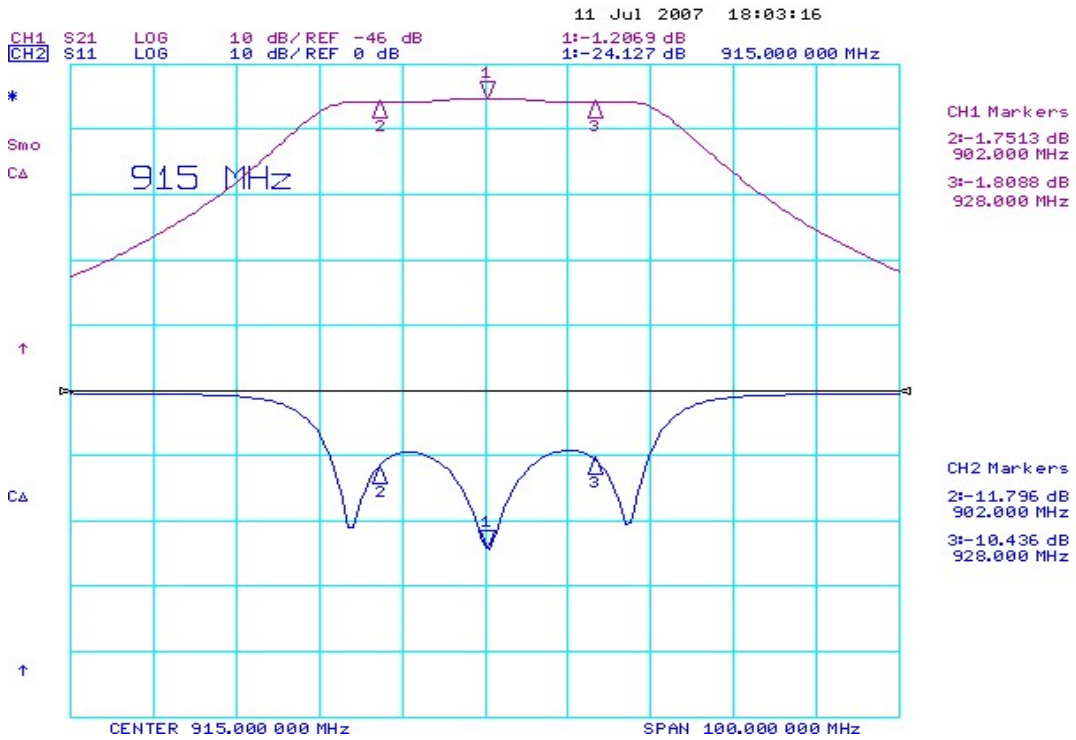
**902-928MHz Band Pass Filter**

**Typical Performance @ +25 °C**



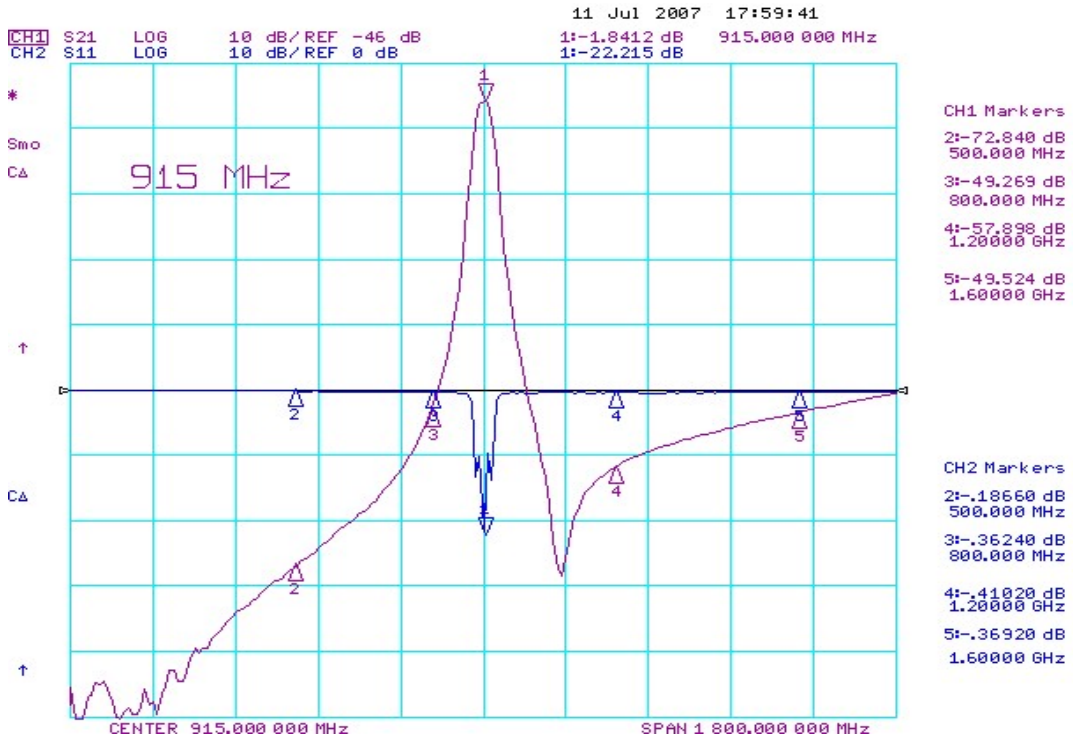
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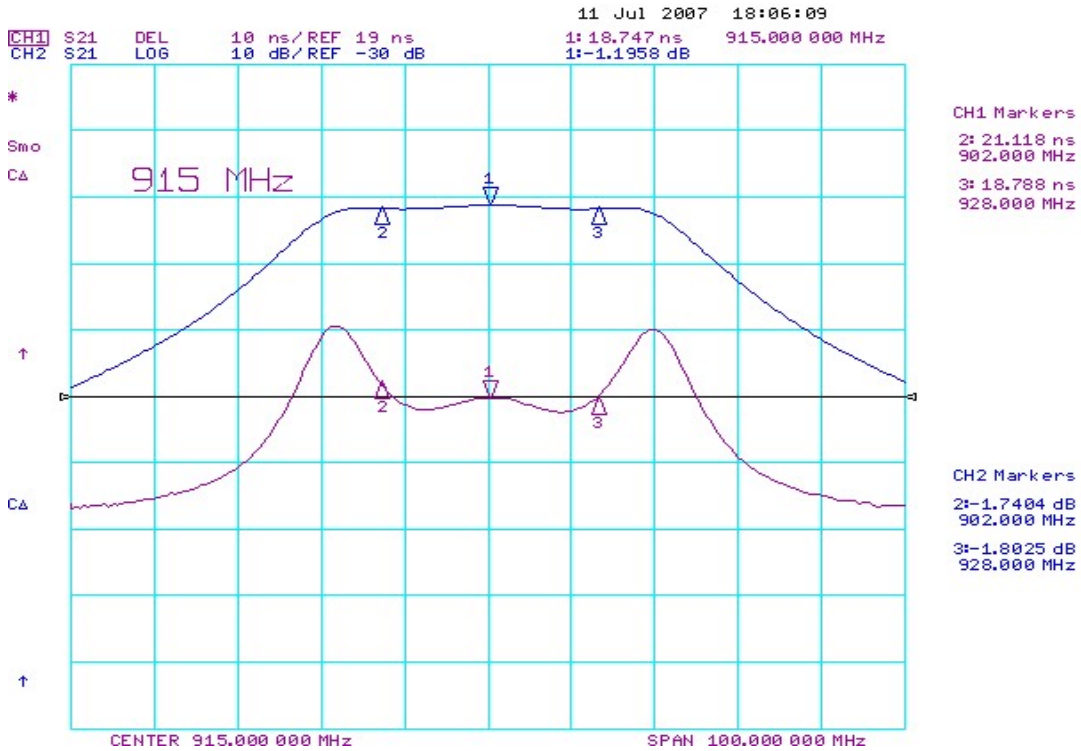
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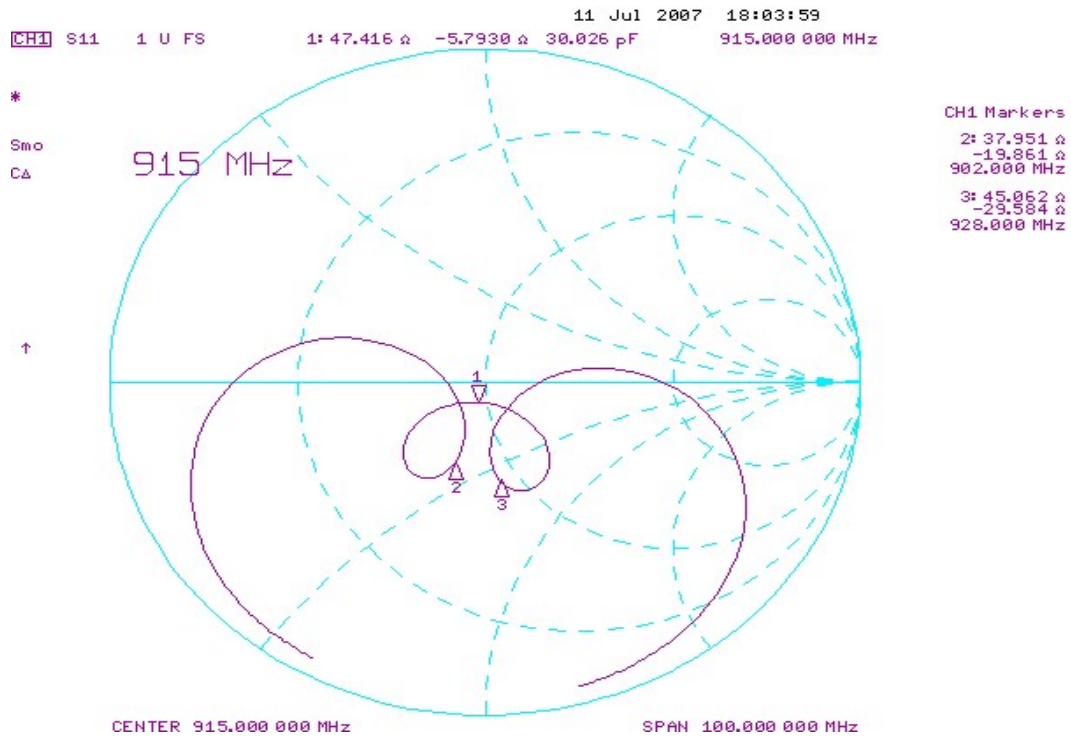
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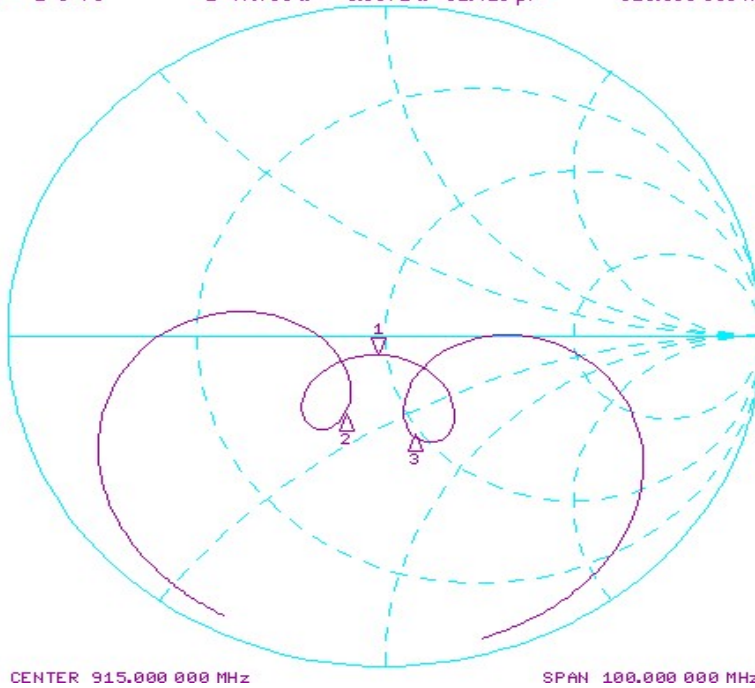
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CH1 S22 1 U FS 11 Jul 2007 18:04:23  
 1: 47.756  $\Omega$  -5.5371  $\Omega$  31.413 pF 915.000 000 MHz

\*  
 Smo  
 CA  
 ↑

CH1 Markers  
 2: 36.109  $\Omega$   
 -18.891  $\Omega$   
 902.000 MHz  
 3: 47.791  $\Omega$   
 -31.723  $\Omega$   
 928.000 MHz



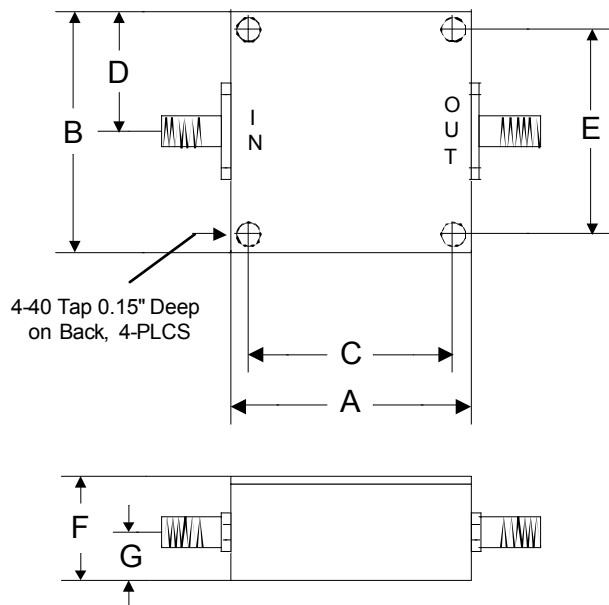
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### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power	+33dBm
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-65 °C to +150 °C

### Outline



	A	B	C	D	E	F	G
<b>Inch</b>	1.250	1.250	1.000	0.625	1.000	0.563	0.250
<b>mm</b>	31.75	31.75	25.40	15.88	25.40	14.29	6.35