



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

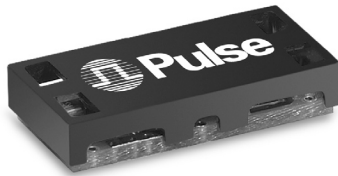
Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



# DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES & HFC EQUIPMENT



- Small surface mount component
- 42/54 frequency split<sup>1</sup>
- Good isolation port to port
- No tuning required
- 75Ω Impedance

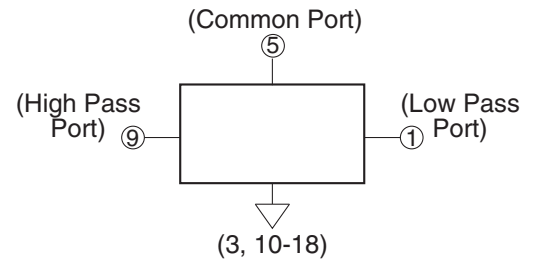
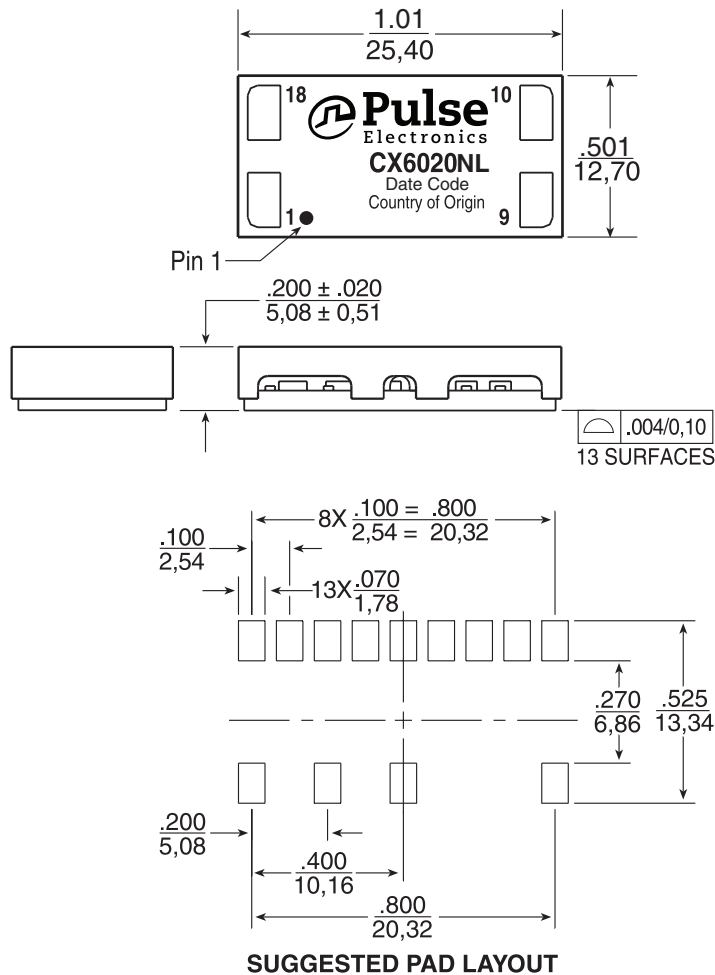
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C									
Part Number	Low Pass Filter			High Pass Filter				Isolation (Port to Port)	
	Passband (Insertion Loss)		Return Loss	Passband (Insertion Loss)		Return Loss		@ 5-42 MHz	@ 54-864 MHz
	@ 5-38 MHz	@ 42 MHz	@ 5-42 MHz	@ 54 MHz	@ 80-864 MHz	@ 54-200 MHz	@ 200-864 MHz		
CX6020NL	<1dB <sup>2</sup>	<1.5dB	≥14dB	<2dB	<1dB	≥12dB	≥9dB	50 dB MIN	30 dB MIN

NOTES:  
 1. Additional frequencies are supported on request. Contact Pulse Applications Engineering.  
 2. Including ripple.

## Mechanical

## Schematic

### CX6020NL



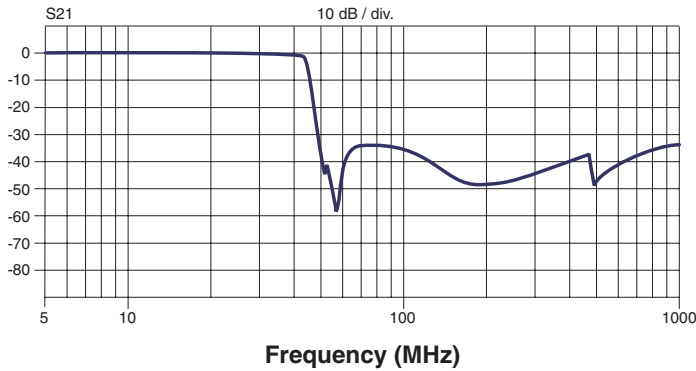
Weight ..... 3.5 grams  
 Tape & Reel ..... 500/reel  
 Tube ..... 20/tube

Dimensions:  $\frac{\text{Inches}}{\text{mm}}$   
 Unless otherwise specified,  
 all tolerances are  $\pm \frac{.010}{0,25}$

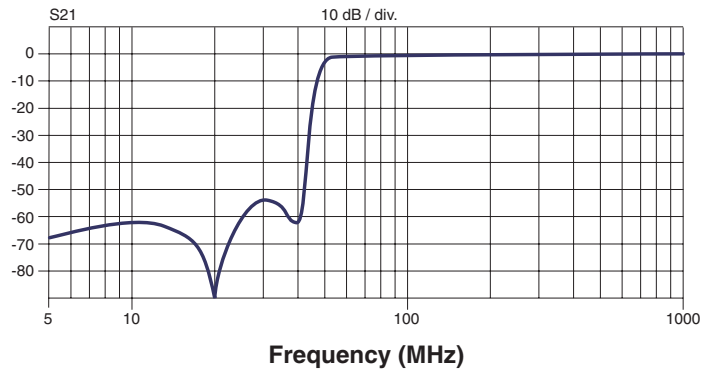
# DIPLEXERS FOR CABLE MODEMS, SET TOP BOXES & HFC EQUIPMENT

Typical Performance @ 25°C  
CX6020NL

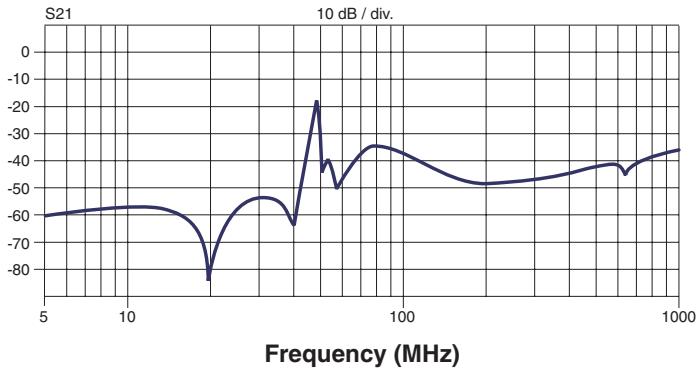
**Low Pass Insertion Loss (TYP)**



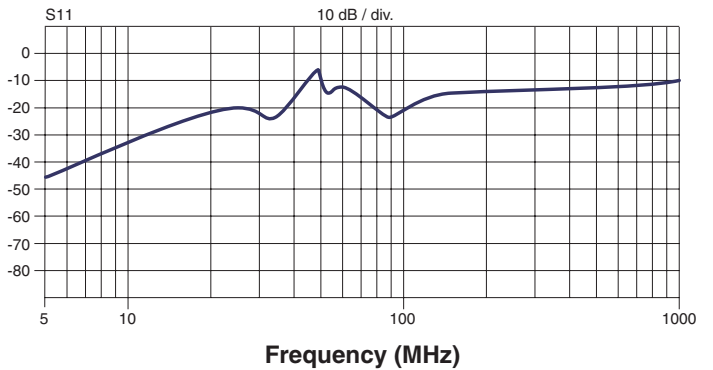
**High Pass Insertion Loss (TYP)**



**Isolation (TYP)**



**Passband Return Loss (TYP)**



## For More Information

**Pulse Worldwide Headquarters**  
12220 World Trade Drive  
San Diego, CA 92128  
U.S.A.

Tel: 858 674 8100  
Fax: 858 674 8262

**Pulse Europe**  
Einsteinstrasse 1  
D-71083 Herrenberg  
Germany

Tel: 49 7032 7806 0  
Fax: 49 7032 7806 135

**Pulse China Headquarters**  
B402, Shenzhen Academy of  
Aerospace Technology Bldg.  
10th Kejinan Road  
High-Tech Zone  
Nanshan District  
Shenzhen, PR China 518057  
Tel: 86 755 33966678  
Fax: 86 755 33966700

**Pulse North China**  
Room 2704/2705  
Super Ocean Finance Ctr.  
2067 Yan An Road West  
Shanghai 200336  
China  
Tel: 86 21 62787060  
Fax: 86 2162786973

**Pulse South Asia**  
135 Joo Seng Road  
#03-02  
PM Industrial Bldg.  
Singapore 368363

Tel: 65 6287 8998  
Fax: 65 6287 8998

**Pulse North Asia**  
3F, No. 198  
Zhongyuan Road  
Zhongli City  
Taoyuan County 320  
Taiwan R. O. C.  
Tel: 886 3 4356768  
Fax: 886 3 4356823 (Pulse)  
Fax: 886 3 4356820 (FRE)

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners. © Copyright, 2011. Pulse Electronics, Inc. All rights reserved.