

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

Tubular Lowpass Filters — L Series

Features:

- Economical Design Yields High Performance Results
- Covers the 100 MHz to 20000 MHz Frequency Range
- Design Available in 2-8 Sections
- 0.05 dB Chebychev Design Response
- Ruggedized Package Design



Specifications:

Model	Diameter (Inches/mm)	Frequency (MHz)	VSWR	Average Power (Watts)	Impedance (Ohms)	No. of Sections	Shock	Vibration	Temp.	Relative Humidity
L250	.25/6.35	400-20000	1.5:1	2	50	2-8	20 G's, 1/2 Sine, 11 Ms	10 G's, 10 Hz-2000 Hz	-55 to +85 °C	0-95%
L120**	.50/12.7	100-3000	1.5:1	18						
L340	.75/19.05	100-2000	1.5:1	40						
L110	1.25/31.7	100-1000*	1.5:1	200						

** Model L120 fits most applications and is the most cost effective choice.

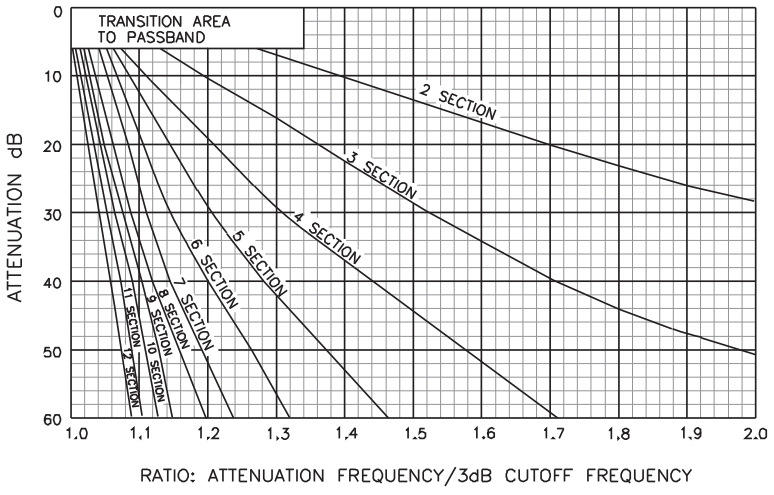
Attenuation:

The following curves are used in determining the out-of-band attenuation. This is determined by first finding the ratio of attenuation frequency / 3 dB cut-off frequency. Once the ratio is determined, the attenuation versus number of sections can be read directly from the curve.

Example:

Reject Frequency = 200 MHz
3 dB Cut-off Frequency = 125 MHz
Number of Sections = 4
The Ratio of Attenuation Freq./3 dB Cut-off Freq. =
Reject Frequency = 200
3 dB Cut-off Freq. 125

Ratio = 1.6
From the curve, a 4 section response = 52 dB



www.klmicrowave.com
Phone: 410-749-2424 • FAX: 443-260-2268
Email: sales@klmicrowave.com

www.klfilterwizard.com
2250 Northwood Drive
Salisbury, MD 21801

Insertion Loss:

The insertion loss specification at 90% of the 3 dB cut-off frequency can be determined by using the following formula:

Insertion Loss = (Loss Constant x No. of Sections)

The result is always rounded up to the next 1/10th of a dB.

Example:
Part Number = 5L121-2250/T3000-O/O
Insertion Loss = 0.10 x 5 =0.5 dB

Loss Constant vs. Frequency vs. Model

	Frequency (MHz)					
Model	100	101 400	401 1000	1001 2000	2001 4000	4001 20000
L250			.25	.20	.18	.1
L120	.18	.16	.13	.11	.1	
L340	.14	.13	.12	.11		
L110	.09	.08	.07			

Mechanical/Connectors- See page 44.

To Order:

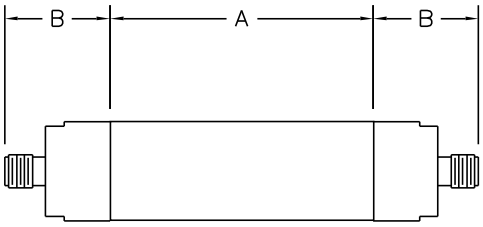
5 L 120 — 350 / E 3000 — O / OP
1 2 3 4 5 6 7 8

Code	Description
1	Number of Sections
2	L-Lowpass
3	Model 250-.25″- 6.35mm 120-.50″ - 12.7mm 340-.75″ - 19.05mm 110-1.25″ - 25.4mm
4	Cut-off Frequency (MHz)
5	Supplemental Codes (See Page 13)
6	Upper Frequency Stopband Limit (MHz)
7	Input Connector
8	Output Connector

Tubular Mechanical

The length of a tubular filter is determined by adding the "A" and "B" dimensions. The "B" dimension is obtained from the table below, and the " A" dimension is obtained from the Length vs. Frequency tables on the following page.

Example:
A 3-section bandpass filter Model B120 with a center frequency of 300 MHz and with SMA connectors has an "A" dimension of 2 inches and a "B" dimension of 0.8 inches. The total length is 3.6 inches.



Connector Style	Connector Code	"B" Dimension (Inches)			
		.25 Diameter	.50 Diameter	.75 Diameter	1.25 Diameter
"N" Female	N	NR*	1.28	1.4	1.7
"N" Male	NP	NR*	1.23	1.31	1.65
BNC Female	B	NR*	1.0	1.35	1.42
BNC Male	BP	NR*	.93	1.45	1.35
TNC Female	T	NR*	1.0	1.35	1.42
TNC Male	TP	NR*	.93	1.45	1.35
SMA Female (Standard)	O	.6	.8	.8	.8
SMA Female (Right Angle)	DO	NR*	.6	.6	.6
SMA Female (Right Angle Square)	EO	.55	.65	.65	.65
SMA Male (Standard)	OP	.73	.85	.85	.85
SMA Male (Right Angle)	DP	NR*	.6	.6	.6
SMA Male (Right Angle Square)	EP	.55	.65	.65	.65

NR*- Not recommended
For PC mount, contact factory
Standard connector dimensions are in inches, please use 25.4 to convert to metric.

www.klmicrowave.com
Phone: 410-749-2424 • FAX: 443-260-2268
Email: sales@klmicrowave.com

www.klfilterwizard.com
2250 Northwood Drive
Salisbury, MD 21801

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP