

L1L2F – passive GNSS L1 / L2 Filter

Description:

Designed with the thin link margins of satellite navigation systems in mind, the L1L2F is a single input L1 / L2 Band Passive Filter that passes only L1 and L2 GPS frequency.

The device features excellent side band rejection with an insertion loss of less than 5.0 dB. The product may pass DC or can also be used as a DC block.

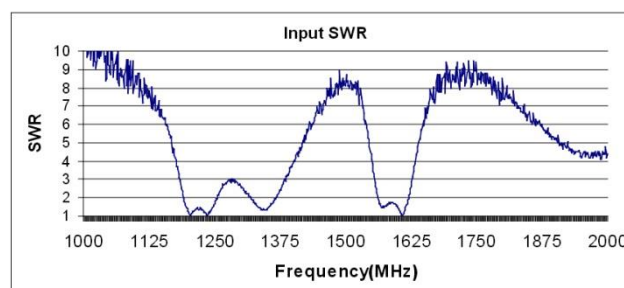
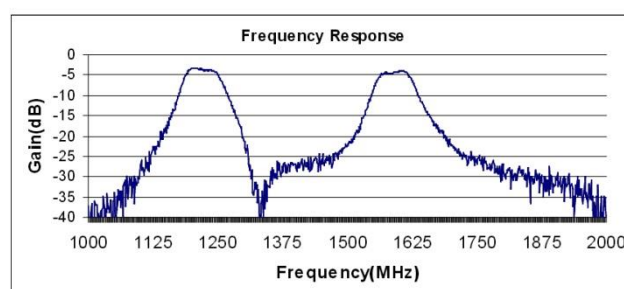
The L1F Passive Filter comes with various options to meet your specific needs. See “Options” for more details.

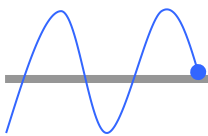


L1L2F

Features:

- Responses to L1 & L2 GNSS Bands
- Low Insertion Loss, IL < 2.2 dB
- Excellent Out of Band Rejection
- Passes DC for Active Antenna





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ELECTRICAL SPECIFICATIONS

> Input/Output Impedance	50 Ω
> Frequencies	
L1 @ 1575 MHz	1.555 – 1.625 GHz
L2 @ 1227 MHz	1.185 – 1.250 GHz
> Insertion Loss	
@ 1575 MHz typ.	3.5 dB
Min / Max	3.0 / 5.0 dB
@ 1227 MHz typ.	4.5 dB
Min / Max	4.0 / 5.0 dB
> SWR Input / Output	2.0 : 1
> Rejection L1	
@ + 75 MHz / - 75 MHz	-12 dB
@ +100 MHz / -100 MHz	-16 dB
> Rejection L2	
@ + 75 MHz / - 75 MHz	-16 dB
@ +100 MHz / -100 MHz	-20 dB
> Ant / Thru Current max.	250 mA max.
> Device Current	38 mA
> Max. RF Input	30 dBm
> DC Input on Output port	16 V DC max.

OPTIONS

> Power Supply	
-Input	
P110 – Transformer	
P220 – Transformer	
P240 – Transformer	
External with Tinned Leads	(5 – 28 V max.)
PM, MS – MIL Connector	(5 - 28 V max.)
-Output	
3.3, 5, 7.5, 9, 12, variable (3-12 V),	
XX (custom)	
> Environmental Protection (any or all)	
EMI Shielding	
Waterproof	
Hermetically Sealed	
> DC on any Port	
DC Pass	
DC Block	
> RF Connectors	
N (m, f)	
SMA (m, f)	
TNC (m, f)	

PHYSICAL SPECIFICATIONS

> RF PORTS	
Input	1
Output	1
> Operating Temperature	-40 bis 85°C
> Standard Housing	
Dimensions (L x H x D)	101 x 29 x 26 mm
Weight	~ 275 g

