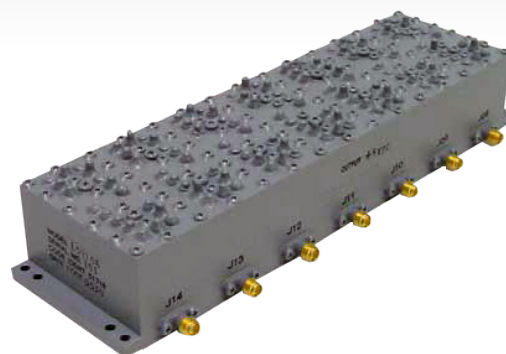


# 7 Channel GPS Filter/Amplifier L59101

## Specifications

PARAMETER	UNITS
Center Frequencies	1227.6 and 1575.42 MHz
Gain	+50 to +55 dB
Passband Ripple	0.5 dB maximum
Passband Bandwidth	± 12 MHz minimum
-40 dB Bandwidth	± 100 MHz maximum
-60 dB Bandwidth	± 150 MHz maximum (Excluding between L1&L2)
Input VSWR	1.3:1 maximum
Output VSWR	2:1 Maximum
Gain Matching L1 to L2	2.8 dB Maximum
Gain Matching (L1 to L1, L2 to L2)	0.5 dB
Group Delay Matching L1 to L2	+200ps max to -0ps min over $f_0$ ±12 MHz
Group Delay Matching unit-to-unit Matched in sets of 7	1 nano second over $f_0$ ±12 MHz
RF Input Power	1 Watt Continuous, 450 Watts for 10 microseconds, duty cycle 0.1%
Noise Figure	2.5 dBm maximum
Input IP3	-20 dBm minimum
Input 1 dB compression point	-31 dBm minimum
Output Power	+24 dBm Maximum
Output Protection	Unit must be stable under any load without damage
Power Requirements	5 +/- 10% VDC @ 1.4 amps maxi- mum, 1.1 amp Typical
Connectors (Input)	6 SMA Female, 1 SMA Male
Connectors (Output)	7 SMA Female
Temperature	-40° C to +85°C Operating
Vibration	4 Hz to 50 Hz per MIL-STD-167 for mast-mounted equipment
Shock	9 hammer blows as specified in MIL-S-901, Type A, Grade A, Class I



## Features

- 7 discreet GPS L1 and L2 filter/limiter/amplifier paths
- Precision amplitude, and phase matching between channels for anti-jam receiver systems.
- Bandpass filters are Cavity Design
- High RF power handling capability
- Low Noise Figure
- Extremely small footprint

## Applications

- Maritime
- Airborne
- Missile

## Package size

1.5" x 2.5" x 9.04"

# Outline Drawing

