

GPS Filter/Amplifier L5633

Features

L1+L2 Operation
 Low Noise Figure
 Cavity Filter
 Discreet Amplifier
 Excellent out-of-band attenuation

Applications

Aircraft
 Simulators
 Maritime
 Mobile
 Test Equipment



Package size

0.5" x 1.3" x 4.3"

Specifications

PARAMETER	UNITS
Center Frequency	L1 1575.4 + 10 MHz L2 1227.6 + 10 MHz
1 dB Two-sided Bandwidth	L1 24 MHz min L2 24 MHz min
80 dB Two-sided Bandwidth	L1 200 MHz max L2 200 MHz max
Center Frequency Gain (1)	L1 25 + 3 dB L2 25 + 3 dB
L1 & L2 Gain Match	Within 2 dB
Rejection	80 dB minimum for all frequencies between 100 MHz and 10GHz that are greater than + 100 MHz from L1 and L2. 65 dB minimum from 10 GHz to 12 GHz
Group Delay Variation L1 & L2	5 ns maximum, unit to unit
Signal Band Noise Figure	4.1 dB maximum at + 10 MHz from L1 and L2 (4.5 dB at elevated temp)
VSWR	1.5:1 referenced to 50 Ohms
DC Power	Through center conductor of output coaxial connector
Voltage	+ 8.7 Vdc to + 22.0 Vdc
Current	0.060 Amps max
Ripple and noise	0.25V peak-to-peak, maximum
Transient excursion	0.2 V for 0.2 seconds, maximum
In-Band Power Handling	+10 dBm RF for 1 minute
Out-Of Band Power Handling	+ 33 dBm RF without damage (at least 100 MHz removed from L1 or L2)

PARAMETER	UNITS
Continuous Operating Temp	- 55 to + 85°C
Elevated Temperature	+ 85 to + 95°C for 10 minutes, max
Non Operating Temperature	- 55 to + 125°C
Altitude	70,000 feet
Humidity	100 percent, condensing
Sand and Dust	MIL-STD- 810, Method 510.1, Procedure I.
Salt Spray	MIL-STD- 810, Method 510.1, Procedure I.
Salt Water Immersion	Non-operating, One hour immersion per MIL-STD-810, Method 512.1, Procedure III.
Shock	MIL-STD-810, Test Method 516.2, Procedure I Amplitude @ 20 g and time 11 ms
Rain	MIL-STD-810, Test Method 506.1, Procedure I
Weight	0.5 pounds maximum
Microelectronic components	Screened per MIL-STD-883
Reliability (MTBF)	100,000 hours per MIL-HDBK-217 for Airborne, Uninhabited, Fighter Environment.
Finish	Haze Gray per MIL-P-24441, Type 1
Connectors	SMA Female

Outline Drawing

