

GPS Filter/Amplifier with Integrated DC Bypass

L5373

Features

L1+L2 Operation
 Integrated DC Bypass
 Low Noise Figure
 Cavity Filter
 Discreet Amplifier
 Excellent Out-Of-Band Attenuation

Applications

Aircraft
 Maritime
 Mobile
 Test Equipment
 Timing



Package size

0.5" x 3.25" x 3.6"

Specifications

PARAMETER	UNITS
PASSBAND	L1=1575.4 MHz Fo±10MHz L2=1227.6 MHz Fo±10MHz
GAIN NET	33 ± 3dB
Δ GAIN L1 & L2	33 ± 3dB
1dB COMP., OUT	>+3dBm min, max < +12dBm
PB RIPPLE, 1 channel	< ±0.4 dB
delta td, 1channel	<8ns p-p
OPERATING TEMP	-54°C to +85°C cont., to +95°C for 30 min.
Bias Tee Feed Bypass	Bypass input & output
BW 1dB	> ±13MHz < ±23MHz
BW 3dB	> ±17MHz < ±28MHz
BW 20dB	< ±60MHz
BW 40dB	< ±135MHz, goal < ±125MHz
BW 50dB	< ±190MHz, goal < ±150MHz < ±190MHz, F= 0.1-9G
ULT. ATTEN.	
(a) .0.1-5.5GHz rejection	(a) >50dBc min
(b) 5.5-10GHz	(b) >40dBc min
(c) 10-18GHz	(c) >20dBc min
VSWR, INPUT	<1.6:1max.
VSWR, OUTPUT	< 1.8:1max.
INBAND, INPUT POWER, SURVIVE, NON-OPERATE	<330watts peak, PW=1 10us, DF<0.1%, <1watt average; <1watts CW < 0-2GHz

PARAMETER	UNITS
INBAND, INPUT POWER, MAX, OPERATE	-15dBm max.
PREAMP, OUTPUT, max.	+13dBm max, peak or CW
NOISE FIGURE, INPUT	<2.8dB @ 25°C <3.3dB @ -54 to +80°C
1dB COMP., INPUT	> -33dBm @ L1, L2
DC POWER	+5V to +12 VDC @ 75 mA max.
ALTITUDE	-1000 to +15,000 feet
HUMIDITY	100 percent, condensing
SAND AND DUST	MIL-STD-810, Method 510.4, Procedure I.
SALT SPRAY	MIL-STD-810, Method 509.4, Procedure I.
SALT WATER IMMERSION	Non-operating, One hour immersion per MIL-STD-810, Method 512.1, Procedure III.
SHOCK	MIL-STD-810, Method 516.2, Procedure 1. Amplitude@20 g and time 11 ms
RAIN	MIL-STD-810, Method 506.1, Procedure I.
RELIABILITY (MTBF)	193,000 hours per MIL-HDBK-217 for Air- borne, Uninhabited, Fighter Environment.
CONNECTORS	SMA Female
STORAGE TEMP	-62°C to +95°C
Lightning, Input, Survive	500V PK
FINISH	Haze Gray per MIL-P-24441, Type 1

Outline Drawing

