



Model Number L59101

7 Channel GPS Filter/Amplifier

Specifications	
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 $f_0 \pm 12$ MHz
Group Delay Matching unit-to-unit Matched in sets of 7	1 nano second over $f_0 \pm 12$ 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 maximum 1.1 amp Typical
Connectors (Input)	6 SMA Female, 1 SMA Male
Connectors (Output)	7 SMA Female
Size	See Outline
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

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Delta Microwave reserves the right to change specifications without notice. Please verify specification revision letter upon order placement.