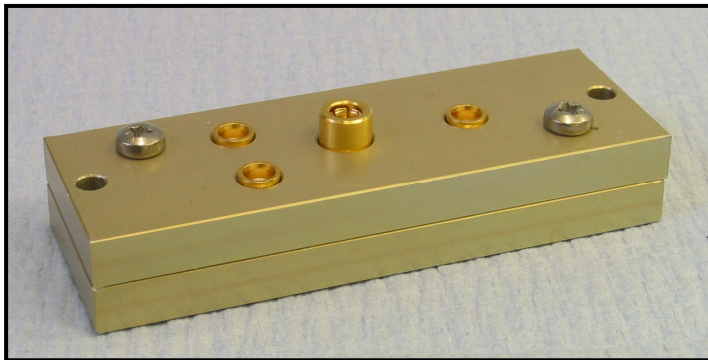


Miniature Passive GPS Antenna Splitter with DC Injection

KEY FEATURES

- DC blocking of GPS Ports
- Typical 3.4dB Insertion Loss Antenna to GPS
- >20dB Isolation of GPS Ports
- DC feed voltage 0-15Vdc



INTRODUCTION

Polytronics Passive GPS Antenna Splitter allows two GPS receivers to share a single antenna. Designed for both manufacturing and position/timing redundancy applications, GPS L1 Splitters provide dependable signals for two GPS receivers.

DC Injection allows the use of any GPS Antenna voltage from 0-15Vdc and up to 150mA of antenna current. This enables the GPS system to be used with a wide range of GPS antennas, with or without an inline L1 amplifier. The system designer thus has the freedom to position the GPS Antenna in the ideal location.

Over-current protection will limit the Antenna current to less than 300mA.

The Passive GPS Antenna Splitter takes no power from the GPS receivers.

Ultra small size for easy integration.

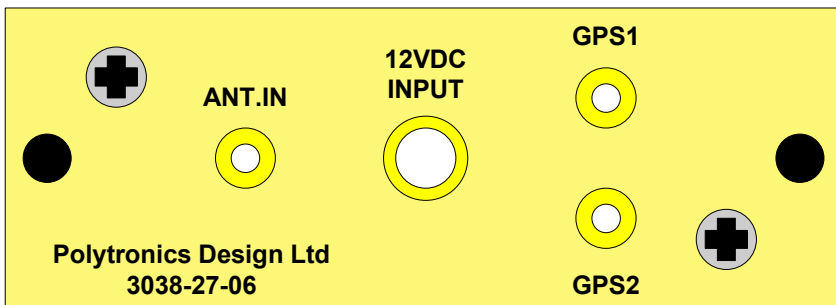
Specification

Part Number	3038-27-06-0001
Size	71 x 25 x 15.8mm (Excluding mated connectors)
Weight	42g
DC Input Voltage	15Vdc Max, 5 or 12Vdc typical
DC Antenna Current	150mA Max (Over-current protection will cut in above 150mA)
Antenna to GPS Insertion Loss	3.4dB typical @ 1575MHz
Antenna Return Loss	>20dB @1575MHz
GPS Return Loss	>26dB
GPS to GPS Isolation	21.8dB typical @ 1575MHz
GPS & Antenna RF Connectors	MCX 50Ω
DC Power Connector	SMB 50Ω
Operating Temperature	-40°C to +85°C

CONNECTION INFORMATION

Note: 12VDC Input, centre pin is +12V.

Caution: Voltages applied to the 12VDC Input are passed through to the Antenna, please ensure the antenna is suitably rated.



DIMENSIONS

