GPS L1/L2, GLONASS L1

RSP12T-GGL2
GNSS 12-Way Smart Repeater

Common GNSS repeater Equipment

- Complicated Structure - GNSS receiver, signal am plifier/damper, several splitters, radiation antenna, connectors, etc.
- Need for amplification factor adjustment & distrib ution received signals from GNSS antenna depen ding on operating environment.
- Need for multi-level splitters for the distribution of numerous signals.
- High procurement costs and complicated installat ion/management

RSP12T-GGL Features

- General purpose repeater for GPS L1/L2 broadband & GLON ASS L1 signals
- Tuning gain for each L1,L2
- Monitoring and inspection for signal radiation antennas
- RSP12T - Radiation antenna functional check(BIT)
- Detection Oscillation status
- Set up amplifier/damper for GNSS signals
- Simultaneous 12-port output
- Easy to install & operate with compact structure

Functions

- Active GPS L1/L2, GLONASS L1 signal distribution
- Broadband L1/L2 P(Y) Code signal support
- Optimum self-inspection function
- Monitoring Receiver & radiation antenna connection status
- Detecting Oscillation status
- Operation display lamp / RS-232 monitoring & control
- Set up and Store Non-volatile gain value
- Excellent isolation between ports
- Embedded band pass filter
- Convenient installation & operability
- Overvoltage protection
- Wide movement voltage range(DC power)
- Waterproof / anti-corrosion
- Military grade environmental specifications

Specifications

Electrical Specification

Input / Output Impedance			50Ω
Frequency	GPS L1/L2		1575.42MHz±10.23MHz 1227.60MHz±10.23MHz
	GLONASS L1		1597MHz ~ 1610MHz
V.S.W.R	Input	GPS L1/GLONASS L1	2.0 : 1 (max.)
		GPS L2	
	Output	GPS L1/L2	1.5 : 1 (max.)
		GLONASS L1	
Gain	Gain	GPS L1/GLONASS L1	18dB (max.)
		GPS L2	18dB (max.)
	Flatness	GPS L1/GLONASS L1	1dB
		GPS L2	1dB
	Control Step		1dB, 25 step, Stored at non-volatile memory
Noise Figure			< 3dB
Port-to-Port Isolation			> 40dB
Group Delay			< 30ns
Input Level	Maximum input level		-30 dBm
	Absolute maximum rating		13 dBm
Operating Voltage/Current			8Vdc~24Vdc, 100mA @24Vdc
AntennaPower	Antenna Feed Voltage		5Vdc
	Antenna Feed Current		10mA~80mA, Short Protection

Smart Operation Features

Receiving Antenna	Open/Short Detection, Blue Indicating LED ON
Radiation Antenna	Open/Short Detection, Red Indicating LED Blinking *During exclusive Radiation antenna applications
Oscillation Detection	Red Indicating LED ON
System Operation	Blue Indicating LED Blinking
RS-232 Control Port	Alarm & Fault Status Monitoring Gain Control

Mechanical Specification

Connectors	RF	13, TNC Female (N-Type Female Option)
	Power	1, MS3102A 10SL-4P
	Communication	1, MS3102A 10SL-3P
Size(W x L x D)		82.5 x 295 x 33 (mm)
Weight		1.4 kg

Environmental Specification

Operating Temperature	-40℃ ~ +80℃
Relative Humidity	MIL-STD-810F Method 507.4
Waterproof	MIL-STD-810E Method 512.3, procedure 1
Corrosion (Salt spray test)	MIL-STD-810F Method 509.4

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