

Monopulse Tacking Receiver

Product Category : Receiver



Product Parameters

General description

The function of monopulse tracking receiver is to complete signal amplification, sampling, AGC control, Doppler presetting, frequency guidance, anti-side band error lock, carrier acquisition and tracking. Monopulse tracking receiver mainly includes IF receiving unit and monitoring processing unit. It can accept local or remote control, and can also display the device status locally and report to the remote monitoring device. The test computer can set and monitor the device through the network interface. The receiver is widely used in the tracking subsystem of antenna and coordinating the servo to complete the automatic tracking of the target.

Features

It can complete signal amplification, sampling, AGC control, Doppler presetting, frequency guidance, anti-side band error lock, carrier acquisition and tracking; It can accept local or remote control,

Display the device status locally and report to the remote monitoring Technical parameters

Name	Monopulse tracking receiver
Type	NBB-J240M1-01
Input bandwidth central frequency	70MHz
Signal tracking mode	Single carrier or residual carrier, wide band data
Input level	Single carrier: -50dBm ~ 0dBm Wide band: -30dBm ~ 0dBm
Information Rate per Carrier after Decoding	$\leq 250\text{Mbps}$
Doppler acquisition frequency range	$\pm 500\text{KHz}$
Acquisition threshold	$S/N \leq 6\text{dB}$
Tracking threshold	$S/N \leq 9\text{dB}$
AGC dynamic range	$\geq 50\text{dBm}$
AGC level range	0 ~ 5V($\pm 10\%$)
AZ, EL level output	-5V ~ $\pm 5\text{V}(\pm 10\%)$
Acquisition time	$\leq 1\text{s}$
Tracking accuracy	$\leq 1/5$ half power beam width(under the tracking threshold, achieve in coordination with antenna)
Service temperature	-20°C ~ +50°C
Storage temperature	-50°C ~ +70°C

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