

DS-HES (Customized)

Core module of Radio Altimeter Simulator



Abstract

The core module of DS-HES can be sold separately or integrated into higher order assemblies. These assemblies can be configured to meet various performance specifications in order to compatible with coustomer's form,fit, and function requirements.

Compare with traditional SAM(surface acoustic wave) delay line system,DS-HES series products have more advantages such as: wide working frequency band, high straight suppression ratio, triple transit signals that are immeasurable, long-life operation without calibration,and high work reliability.

Features

- ※ Wide simulated height range(0 to 22000 above);
- ※ High simulate altimeter accuracy($\geq 1\%$)
- ※ Optional simulate configuration(support more than 2^{10} configurations)
- ※ Manual switch and automatic switch ;
- ※ Volume miniaturization, strong electromagnetic compatibility, high work reliability;
- ※ Multiple control mode:UART, LAN,etc.
- ※ Various standard tests platform interface such as PXI, VXI, LXI.

Application

Place:Radio altimeter for radar,AEW,satellite,helicopter and etc

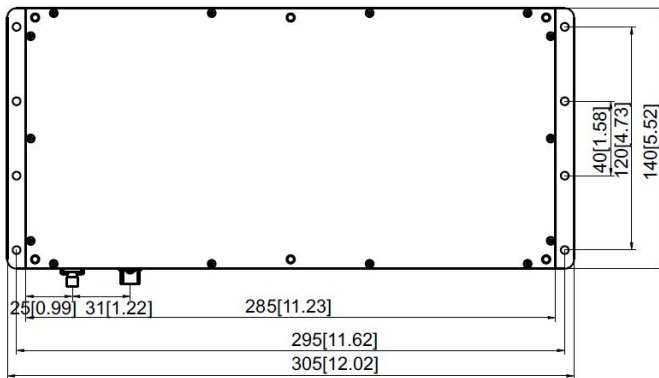
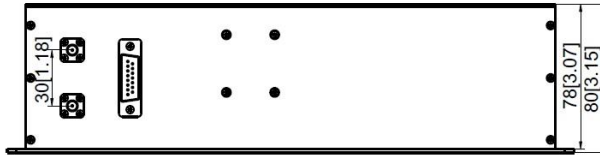
- ※ Measure the accuracy of altimeter
- ※ Measure the secsiticity of research and tracking
- ※ Measurement of other parameter

Electrical/Optical Characteristics

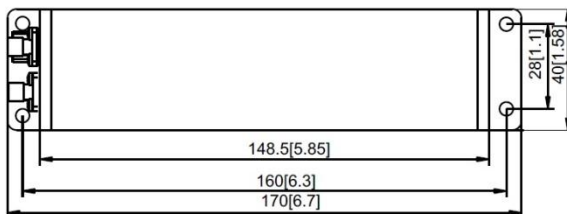
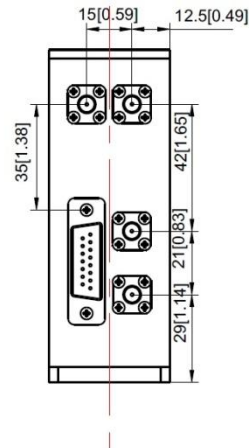
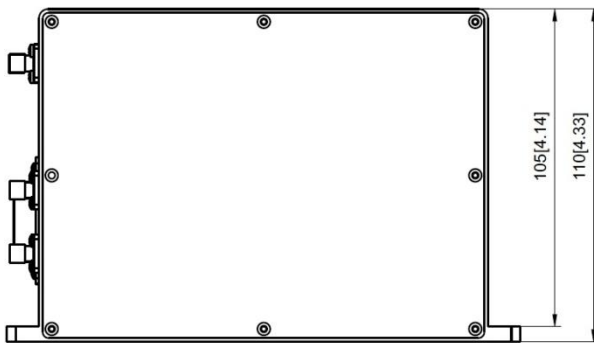
Parameter	Parameter values			Unit	Remark
	Min	Typical	Max		
Frequency range	4	-	4.6	GHz	
Amplitude response	-	±1.5	±2	dB	
Simulate height	1	-	22000	m	Extensible
Simulate height's accuracy	0.5%	1%	-	-	
Maximum input power	-	2	Customized	W	Continuous wave
	-	100	Customized	W	Pulse wave
Input VSWR	-	1.3	1.5	-	
Output VSWR	-	1.3	1.5	-	
Impedance	-	50	-	Ω	
Simulate attenuation's adjustable range	-	80	Customized	dB	
straight suppression ratio	60	80	-	dBc	
triple transit signals	No				
Operating Temperature Range	-40	-	+70	°C	Customized with quality grade
Storage Temperature Rang	-55	-	+85	°C	
Simulate height vs. Temperature	-	-	7	ppm/°C	
Simulate accuracy vs. Temperature	-	3	6	%/°C	Can be compensated

The packages and the pins (Unit: mm[inch])

◆ Fiber-optic box



◆ Microwave box



RF connector: SMA-K (Customized)

DC connector: DE-9PS (Customized)