

ASLE-L-200D

Description

Polaris' ASLE series products are satellite link emulators for geostationary satellites and provide an ideal solution for satellite modem testing, satellite to Earth station RF link testing, spacecraft payload testing, and general testing systems using satellite communications.



The ASLE-L-200D provides accurate simulation for propagation delay, path loss, and Doppler frequency shift for closed-loop testing of geostationary satellites and earth station terminals. The ASLE-L-200D operates from 950MHz to 1,450MHz and provides up to 200 MHz bandwidth.

Features

- Built-in L-band frequency converter
- Operating bandwidth: 200 MHz
- Time delay range: 0 to 530 ms (1 us steps)
- Doppler shift range: -6 MHz to 6 MHz (1 Hz steps)
- Spurious: -50 dBc typ.
- Remote interfaces: USB, RS-232, or RS-422/485

Options

- Option F: Extended Frequency Range
(950 MHz to 1950 MHz)

Applications

- Satellite Modem Test
- VSAT Test
- Satellite Payload Test
- UAV Test
- Earth Terminal Test
- Satellite System Integration Test Beds
- Mobile Transceiver Test

Specifications

Parameters		Specifications	Remarks
Operating Frequency	Range (MHz)	950 to 1450	Option F: 950 to 1950
	Step (MHz)	1	
RF Input Power (dBm)		≤ -10	
Maximum Gain (dB)		0 ± 1 at 0dB attenuation & 1200MHz	
Operating Bandwidth (MHz)		≥ 200	
Gain Flatness (dBp-p)		≤ 2	
Time Delay	Range (ms)	0 (Bypass), 0.01 to 530	
	Step (us)	1	
	Accuracy (us)	$\leq \pm 0.1$	
Attenuation	Range (dB)	0 to -40	
	Step (dB)	0.5	
	Accuracy (dB)	$\leq \pm 0.5$	
Doppler Shift	Range (MHz)	-6 to 6	
	Step (Hz)	1	
	Accuracy (Hz)	Based on 10MHz reference	
Spurious (dBc)		≤ -45 at in-band (≤ -50 dBc typical)	
V.S.W.R. (: 1)		≤ 1.5 at 50 Ω	
Control and Interface	Local	Front Panel (VFD & Keypad)	
	Remote	USB, RS-232, or RS-422/485	
Primary Power	Voltage (Vac)	90 to 240	
	Frequency (Hz)	47 to 63	
Operating Temperature (°C)		+10 to +40	
Size (Width x Height x Depth) (inch)		19" x 5.25" x 21"	
External Reference Switching		Automatic (Switching Time: 5 sec)	10MHz, 0 ± 2 dBm, 50 Ω

※ ASLE(Advanced Satellite Link Emulator), L(L-Band), 200D(200MHz Bandwidth, Doppler)

- Address: #1913, Anam tower, 311 Teheran-ro, Gangnam-gu, Seoul, Republic of Korea
- Tel: +82-2-2009-2120
- e-mail: info@polariswave.com
- web: www.polariswave.com