

ASLE-L-200D

Description

Polaris' ASLE series is an advanced satellite link emulator designed to extend the propagation time delay of the PSLE series from 265 ms to 530 ms. The ASLE-L series operates in L-band and supports Doppler shift of up to -6 MHz to 6 MHz and operating bandwidth of up to 200 MHz.

The ASLE-L-200D provides accurate reproductions for propagation time delay, path loss, and doppler frequency shift for closed-loop testing of geostationary satellites and earth station terminals. The ASLE-L-200D operates from 950 MHz to 1450 MHz and provides operating bandwidth of 200 MHz.



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)	0.1	
RF Input Power (dBm)		≤ -10	
Maximun Gain (dB)		0 ± 1 at 0dB attenuation & 1200MHz	
Operating Bandwidth (MHz)		≥ 200	
Gain Flatness (dBp-p)		≤ 3	
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