

## PSLE-140-36D

### Description

The Polaris PSLE series is a Satellite Link Emulator for geostationary satellites. The PSLE series provides 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 PSLE-140-36D provides accurate simulation of propagation delay, path loss, and Doppler frequency shift for closed-loop testing of geostationary satellites and earth station terminals. The PSLE-140-36D operates at 140MHz and provides up to 36MHz bandwidth.

### Features

- Excellent SNR using 14bit ADC
- Low Noise Floor below -125dBc/Hz
- Wide Doppler Frequency Shift from -3MHz to +3MHz
- Stable and reliable simulation for signals with high modulation index

### Options

- Option T: 64ns Time Resolution

### 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
Center Frequency		140MHz	
Operating Bandwidth		36MHz	
RF Power	Input	≤-10dBm	
	Output	-10dBm max. at 0dB attenuation	
Gain		0dB max.	
Attenuation	Range	0dB to -40dB	
	Resolution	0.5dB	
	Accuracy	≤ ±0.5dB	
Spurious		≤-45dBc at in-band (≤-50dBc typ.)	
Noise Floor		≤-125dBc	
Return Loss		≤-17.5dB at 50Ω	
Doppler	Range	-3MHz to +3MHz	
	Resolution	1Hz	
	Absolute Accuracy	based on 10MHz reference	
Delay	Range	265ms max.	
	Resolution	1ms	Option T: 64ns
	Accuracy	based on 10MHz Reference	
Control and Interface	Local	Front panel	
	Remote	RS-232, USB	
Primary Power	Voltage	90VAC to 240VAC	
	Frequency	47Hz to 63Hz	
Operating Temperature		+10°C to +40°C	
Size (Width x Height x Depth)		19" x 5.25" x 21"	

※ PSLE(Polaris Satellite Link Emulator), 140(140MHz), 36D(36MHz Bandwidth, Doppler)

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