

DS-HAP Amplitude-Phase Stability Fiber-optic Delay Line&Simulator(Customized)

Abstract

DS-HAP series amplitude-phase stability fiber-optic delay line & simulator series are developed for applications which require special indicators of amplitude & phase. DS-HAP series are widely suitable for various of high precision active radar calibrators.

DS-HAP series work effectively in whole P~Ku bandwidth. Under the working condition of full temperature, the indicators of amplitude and phase do well in short-term stability, long-term repeatability and channel consistency. DS-HAP can be configured to compatible with the customer's functional requirements specifications in delays, structures, quality grades products.

Features

- ✘ **Amplitude-phase stability**
- ✘ **Long-term repeatability**
- ✘ **Channel consistency**
- ✘ **High dynamic range**
- ✘ **Wide temperature application**

Applications

- ✘ **Radar testing/calibration**
- ✘ **Signal processing**
- ✘ **Electronic war**
- ✘ **Phased array antenna**
- ✘ **Antenna simulation**

Electrical/Optical Characteristics

Parameter	Parameter values			Unit	Remark
	Min	Typical	Max		
Frequency range	9	-	10	GHz	
Amplitude response	-	±0.5	±0.75	dB	
In-band phase fluctuation	-	±3	±5	°	
Input 1 dB Compression	-	+10	-	dBm	
Gain	-2	0	+2	dB	Full temperature
Time Delay	0, 2, 4			us	
Delay Accuracy	-	30	50	ns	Full temperature
The short-term stability of gain		±0.1	±0.2	dB	In 10 minutes after preheating
The consistency of amplitude at the same delay state	-	1	-	dB	Full temperature
The consistency of delay at the same delay state	-	2	-	ns	Full temperature
Operating Temperature Range	-40	-	+70	°C	
Storage Temperature Range	-55	-	+85	°C	