

# Doteck

## Doteck LB Mini Series

### L-Band fiber optic Transmission System



#### Features

- (1) Variety of technical specifications and design shows the characteristics of satellite L-band fiber optic link products in current market and it's the best solution with lowest cost
- (2) Bandwidth at 950~2150MHz, can transmit analogue or digital signal from L-band of all satellites
- (3) TG transmitter, and AGC amplifier inside
- (4) Perfect laser APC, ATC controls circuit guaranteeing the laser's long service life and high stable operating
- (5) Transmitter could send 13VDC or 18VDC to LNB
- (6) All the working specifications are controlled by microprocessor. It is used in the project with high requirement
- (7) Prevent from electromagnetism, RF and thunder and lightning interference strongly
- (8) All components, including connectors, are ordered from public-known

manufacturers in the world, high stability and reliability ensurance

(9) Enclosure box material is made of aluminum, elegant appearance, and light weight

### Applications

- (1) Satellite L-band fiber optic assignment system
- (2) Ocean ship satellite fiber optic assignment system
- (3) Satellite L-band up/down fiber optic link

### Introduction

Dotack LB Mini series L-band fiber optic transmission is working under the bandwidth of 950~2150MHz, which could convert all L-band analogue or digital satellite signals got by LNB to optical signal, and transmit by fiber optic full transparently, high quality and long distance. It is also used in fiber optic assignment in satellite building and satellite L-band up/down link, use agile and convenient installation.

### Technical Specifications

RF parameters	
Frequency range	950~2150MHz
Level input	-45~-20dBm
Level output	-30~-25dBm
Smoothness	$\pm 1.0\text{dB}(950\sim 2150\text{MHz})$
Channel	1
Input impedance	75 $\Omega$
RF return loss	$\geq 10\text{dB}$
RF connector	F-type
Intermodulation	$\leq -40\text{dBc}$
Noise figure	42dB

Link gain	0-10dB
<b>Physical</b>	
Dimension(H×W×D, mm)	44×132×210(mm)
Power supply	130-260VAC, 50/60Hz
Power consumption	<10W
Operation temperature	0-50℃
Relative humidity	0-95%, non-condensing
<b>Fiber optic link</b>	
Wavelength	1310nm/1550nm
Number of fiber	1
Connector	FC/APC
Distance	0-20km, or 0-60km optional

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