DEV 7233/7333

OPTRIBUTION TOP L-BAND LINK

- Recommended for RF-over-Fiber Links with optical Losses up to 20 dB
- Adjustable Rx and Tx Gain
- Continuous Optical Modulation Index Optimization
- RF Sensing with Status LED
- LNB Power with Current Monitoring and Status LED
- Push Buttons for Gain Control and LNB Power
- RF Monitor Ports
- 9 CWDM Wavelengths
- Optical Connector Type SC/APC (optional FC/APC or E2000 HRL)

LINK SPECIFICATIONS

DEV 7233 & DEV 7333	VALUE	CONDITION
Frequency Range	850…2450 MHz	
Max. Link Gain	37±2 dB	
Adjustable Gain (Tx Module)	-25…+29 dB in 1 dB Steps	
Adjustable Gain (Rx Module)	0…16 dB in 1 dB Steps	
Adjustable Slope (Rx Module)	0…4 dB in 1 dB Steps	
Flatness	±1.5 dB ±0.15 dB	850…2450 MHz In any 36 MHz window
Return Loss	>14 dB, typ. 16 dB	
Gain Stability	±2 dB	0…+50 °C / 32…122 °F
Group Delay Distortion	<2 ns	
Nominal RF Input Level	-25 dBm	Total power
Noise Figure	14 dB	
SFDR2/3	117 dBc	Note 1
CNR	69 dB	Notes 2, 3, 4
Output IP3	31 dBm	
OP1dB	11 dBm	
Intermodulation Distortion	>40 dBc	@ 2 tones, -13 dBm each
Input Power dynamic Range	-78…+15 dBm	Total power
Dynamic Power Range Automatic OMI Optimization	-27…+15 dBm	Total power
Damage RF Input Level	15 dBm	Total power
Maximum allowable optical Losses	25 dB	

Note 1: Pin = -15 dBm, IM3 = 41 dBc
Note 2: Pin = -15 dBm
Note 3: 36 MHz window
Note 4: with back to back fiber connection (2 m) and minimum noise figure

TECHNICAL DATA DEV 7233 & DEV 7333

COMMON OPTICAL SPECIFICATIONS	VALUE	CONDITION
Fiber Type	Single Mode 9/125 µm	
Optical Connector	SC/APC, E2000/HRL, or FC/APC	Standard is SC/APC
TX SPECIFICATIONS (DEV 7233)		
Laser Type	DFB	
Laser Class (according to IEC 60 825-1)	Class 1M (low Risk to Eyes, no Risk to Skin)	

Optical Power Output	2 mW / 3 dBm	
Available CWDM Wavelengths	(9 different Wavelengths)	Note 1
Power Consumption	15 V; 250 mA	Without LNB power
Weight	~0.5 kg	
TX LNB POWER & CURRENT MONITORING		
LNB Power	18+0/-3 V; max. 500 mA	
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
RX SPECIFICATIONS (DEV 7333)		
Wavelength Range	1100…1650 nm	
Min. optical Input Level (optical Sensitivity)	-22 dBm	
Damage optical Input Level	+10 dBm	
Power Consumption	15 V; 250 mA	
Weight	~0.3 kg	
TX & RX MONITOR PORT		
Impedance, Connector	50 Ohm, SMA (f)	
Return Loss	>18 dB typ.	
Insertion Loss / Flatness Monitor Port	= Input Level – 24 dB ±2 dB (Tx) = Output Level – 20 dB ±2 dB (Rx)	
TX & RX RF SENSING		
Adjustable Threshold Level (THL)	0 dBm > THL > -50 dBm	
Threshold Level Accuracy	±3 dB	
Threshold Repeatability	<0.5 dB	
Alarm Indication	Via LED on the Front Panel & via Remote Communication	
TX & RX GENERAL SPECIFICATION		
Size	4 HP (20 mm) Width, 3 RU (133 mm) Height, 3.94" (100 mm) Depth	
Environmental Conditions	ETS 300019 Part 1-3 Class 3.1E	

Note 1: Please refer to the Order Information section for the available wavelength options.

ORDER INFORMATION

PRODUCT	
DEV 7233	Top Performance Optribution® Transmitter; 850…2450 MHz; SC/APC; with adjustable Gain and Automatic OMI Optimization
	Wavelength Options: Option Wavelength Lambda 0 1310 nm Lambda 1 1470 nm Lambda 2 1490 nm Lambda 3 1510 nm Lambda 4 1530 nm Lambda 5 1550 nm Lambda 6 1570 nm Lambda 7 1590 nm Lambda 8 1610 nm
DEV 7333	Top Performance Optribution® Receiver; 850…2450 MHz; SC/APC; with adjustable Gain and Slope
OPTICAL CONNECTOR OPTIONS	
Option 07	FC/APC Optical Connector
Option 08	E2000/HRL Optical Connector