



QSFP28-PA17-EDFA-LC

QSFP28 EDFA Pre-Amplifier,
17dBm Gain, Duplex LC Connector

Features

- Ultra compact package with QSFP28 standard
- Ultra low power consumption
- Up to 7dBm output power

Applications

- Narrow band amplification in C band
- Power equalization or pre-emphasis amplifier for compact Metro networks and DCI networks

Absolute Maximum Ratings

Parameter	Specification	Unit
Operating Case Temperature	0~70	°C
Operation Humidity	5~95	%RH
Storage Temperature	-40~85	°C
Storage Humidity	0~95	%RH

Optical Specifications

Parameter	Unit	Minimum	Typical	Maximum	Notes
Wavelength Range	nm	1528.5		1566.5	48CH
		1545.3		1557.4	16CH
Input Power Range	dBm	-30		-10	
Saturated Output Power	dBm	7			
Output Power Variation	dB	-0.5		0.5	
Nominal Gain	dB		17		
Gain Range	dB	9		24	1
Gain Flatness	dB		3.5	4.5	48CH@Nominal gain
			1.5	2.0	16CH@Nominal gain
Input Monitor Range	dBm	-33		-7	
Output Monitor Range	dBm	-20		10	
Noise Figure	dB		5.5	6.5	Nominal gain@Pin=-10dBm
Input/output Port Return Loss	dB	40			
PDG	dB			0.3	

Optical Specifications					
Parameter	Unit	Minimum	Typical	Maximum	Notes
PMD	ps			0.5	
Operation Mode		AGC			
Input LOS Threshold	dBm		-33		
LOS Hysteresis	dB		1		

Electrical Specifications					
Parameter	Unit	Minimum	Typical	Maximum	Notes
Input Power Monitor Accuracy	dB	-0.5		0.5	@-33~-7dBm
Output Power Monitor Accuracy	dB	-0.5		0.5	@-20~+10dBm
Gain Accuracy	dB	-0.5		0.5	dB
Supply Voltage	V	3.15	3.3	3.45	
Power Consumption	W			2.5	Steady state

Ordering Information	
OEM	Part Number
MSA	AN-QSFPDD-PABA17-EDFA-CS

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