

XON80.4SAT-M

ULTRA BROADBAND OPTICAL RECEIVER MODULE + DESTACKER+ MULTISWITCH

Application

- ▶ Optical receiver module for 4-band Satellite-TV video overlay in FTTH networks

Features

- ▶ O/E conversion of SAT RF Multiplex signals comprising 4 digital SAT-IF signals in the frequency range from 950-5450 MHz
- ▶ Destacking of RF Multiplex signals
- ▶ 4x4 Multiswitch
- ▶ Output Frequencies: 4 x 950MHz...2150 MHz



Technical Data

Optical Characteristics

Parameter	Unit	Min	Typ	Max
Optical Wavelength	nm	1280	1310/1550	1610
Optical Return Loss	dB	40	45	
Optical power, small PON setting	dBm	-13		0
Optical power, large PON setting	dBm	-18		-14
Aggregate equivalent RF power	dBm	-60		-20 (89)
Nominal satellite transponder levels (min)	dBm	-80 (29)		-40 (69)
Satellite transponders			120	

Electrical Characteristics

Horizontal high band	MHz		1100-2150	
Vertical high band	MHz		1100-2151	
Horizontal low band	MHz		950-1950	
Vertical low band	MHz		950-1951	
Nominal output impedance	Ohm		75	
Return loss	dB	10		
Gain ripple across band	dB			4
Gain ripple across 30MHz	dB			1
Nominal output level (per. transponder)	dBm	-65		-25
OIP3	dBm	10		

Parameter	Unit	Min	Typ	Max
Isolation (unwanted path to selected path)	dB		30	
In band spurious power (min.)	dBc		-25	
Out of band spurious power (max.)	dBm		-60	
LO power (max.)	dBm		-60	
Integrated phase noise (integrated from 1kHz to 13MHz)	°RMS		4	
Output frequency stability/accuracy (max.)	kHz		320	
RF Bandwidth	MHz	950	-	5500
Signal-to-Noise	dB	22.5		

General Technical Data

Parameter	Unit	Min	Typ	Max
Passive optic network size switch (level s of splitting)			STD/SML	
Passive optic network size switch (SML position)	dBm		> -14	
Passive optic network size switch (STD position)	dBm		< -14	
Operating Temperature Range	°C	-10		+60
Storage Temperature Range	°C	-40		+85
Optical Input Power	dBm			0
Power consumption	mA		< 300	
Power supply			External PSU	
Power supply voltage	V		6	
Optical Connector			SC/APC	
RF output connectors			4x F-female	
Dimensions	mm		165x 155 x 30	