



CHP Max[®] CORWave[™] DXL Extended Linearization Forward Transmitters Technical Specification

Transmitter Specifications

- Optical
 - Wavelength: MWX1-1291, MWX2-1293, MWX3-1295, MWX4-1290
 - Output Power, dBm: 4, 6, 8, 10, 13
- RF
 - Operating Bandwidth, MHz: 45 to 1002
 - Channel Loading (analog channels), MHz: 45 to 870
 - RF Input Impedance: 75Ω
 - Port-to-Port Isolation, MHz (typ.): ≥ 60 dB, 45 to 800, ≥ 54 dB, 800 to 870, ≥ 50 dB, 870 to 1002
 - Port-to-Port Gain Variation, dB: ±0.5 (typical), ±1.0 (maximum)
 - Testpoint¹, dB: -20 ±1
- Link Performance
 - Channel Plan: 128 NTSC channels, 42 CENELEC Channels
 - Input RF Power (Analog Ch.²), dBmV/ch: 13.0 NTSC, 18.0 CENELEC
 - CNR: Refer to Product Info. Doc., part # CORWave-D-0209
 - CSO²⁻³, dBc (typical): -63 for NTSC and CENELEC
 - CTB₂, dBc (typical): -68 NTSC, -70 CENELEC

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■ Electrical/Environmental/Mechanical

- Power Supply, VAC: 90 to 220, 50/60 Hz
- Power Consumption, maximum): 17.4W
- Temperature, °C (°F): 0 to 50 (32 to 122) operational, -40 to 70 (-40 to 158) storage
- Operating Humidity, noncondensing (maximum): 85%
- Dimensions (W x H x D) , cm (in): 3.2 x 8.7 x 47.0 (1.25 x 3.4 x 18.5)
- Weight, kg (lbs): 1.24 (2.75)
- Optical Connector: SC/APC
- RF Connector: F-type

-Notes

1. Relative to main port with 0 dB pad and 0 dB EQ.
2. Distortions are measured using only CW analog carriers per SCTE recommendation by standard RF test methods. Performance shown represents typical performance for ≥85% of production units tested over typical Corning SMF-28 fiber (or equivalent). For minimum CSO and CTB, subtract 2dB from typical. CSO performance is for the transmitter only. CSO specifications for CORWave transmitter is obtained over specified fiber links. The typical system CSO is -60 dBc assuming an 11 dBm launch per wavelength for a four-wavelength system.
3. (a) CSO performance for NTSC channels is for the in-band (high-side) beats. (b) CSO performance for CENELEC channels is for high and low side beats.
4. Temperature measured at transmitter module's air inlet.
5. Includes handles and connectors.

Ordering Information

				1	2	3	4		5	6	7	8		9	10		11
C	H	P	-	M	W	X	x	-	x	x	x	x	-	x	x	-	S

1-8 CWDM Optical Wavelength	
MWX1-1291*	MultiWave #01 - 1291 nm
MWX2-1293	MultiWave #02 - 1293 nm
MWX3-1295	MultiWave #03 - 1295 nm
MWX4-1290	MultiWave #04 - 1290 nm

* First Wavelength to be deployed

9-10 Optical Output Level	
04	Fixed Optical Output Power of 4 dBm
06	Fixed Optical Output Power of 6 dBm
08	Fixed Optical Output Power of 8 dBm
10	Fixed Optical Output Power of 10 dBm
13	Fixed Optical Output Power of 13 dBm

11 Connector Type **	
S	SC/APC

** Contact ARRIS for other connector types

Specifications are subject to change without notice.

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