advanced media technologies®

Q-SERIES® Optical

Fiber Optic Products

QFCT 1310nm 1 GHz Quality Fiber CATV Transmitter:

Features:

- Cost-efficient solution for transporting NTSC, PAL & digital signals over fiber for CATV & telephony applications
- 1310nm, optically isolated cooled DFB laser with pre-distortion circuitry
- 4mW to 22mW optical output power in 1RU rack mount package
- Front panel mounted status display for monitoring critical functions
- Front panel mounted RF test point
- 90-265 VAC powering for International use, also available with -48 VDC option

QFCT (front view)

QFCT Specifications

SPECIFICATIONS	QFCT
RF	
FREQUENCY RANGE	45-1000 MHz
CHANNEL LOADING	78 NTSC
RF INPUT SENSITIVITY	18-22 dBmV
FLATNESS	± 0.75 dB
RF INPUT IMPEDANCE	75 Ω
RF RETURN LOSS	16 dB (47-750 MHz)
RF TEST POINT IMPEDANCE	75 Ω (-20 dB)
CARRIER TO NOISE RATIO	>50 dB
COMP. 2nd ORD.	< -55 dBc
COMP. TR. BT.	< -60 dBc
OPTICAL	
WAVELENGTH	1310nm ± 20
OPTICAL OUTPUT POWER	4-22mW
OPTICAL RETURN LOSS	> 55 dB
LASER TYPE	Cooled DFB
MODULATION METHOD	Directly Modulated
ELECTRICAL & ENVIRONMENTAL	
TOTAL POWER CONSUMPTION	50 watts (max)
AC POWER INPUT RANGE	90-265 VAC
DC POWER INPUT RANGE	40-60 VDC
OPERATING TEMPERATURE	-5°C to +50°C (-21°F to +122°F)
HUMIDITY	5-95% Non-condensing
DIMENSIONS	1.75"H x 19.0"W x 10.0"D (4.45H x 48.26W x 25.4D cm)

QFCT 1310nm 1 GHz Quality Fiber CATV Transmitter:

Ordering Information

Part Number	Description
QFCT1310-04	Optical Transmitter, 1 GHz, 1310nm, DFB, SC/APC, 4mW, AC Power
QFCT1310-06	Optical Transmitter, 1 GHz, 1310nm, DFB, SC/APC, 6mW, AC Power
QFCT1310-08	Optical Transmitter, 1 GHz, 1310nm, DFB, SC/APC, 8mW, AC Power
QFCT1310-10	Optical Transmitter, 1 GHz, 1310nm, DFB, SC/APC, 10mW, AC Power
QFCT1310-12	Optical Transmitter, 1 GHz, 1310nm, DFB, SC/APC, 12mW, AC Power
QFCT1310-14	Optical Transmitter, 1 GHz, 1310nm, DFB, SC/APC, 14mW, AC Power
QFCT1310-16	Optical Transmitter, 1 GHz, 16mW/12 dBm, 1310nm, DFB, SC/APC, 1RU, AC Power
QFCT1310-18	Optical Transmitter, 1 GHz, 18mW/12.5 dBm, 1310nm, DFB, SC/APC, 1RU, AC Power
QFCT1310-22	Optical Transmitter, 1 GHz, 22mW/13.5 dBm, 1310nm, DFB, SC/APC, 1RU, AC Power
QFCT1310-04-48	Optical Transmitter, 1 GHz, 4mW/6 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-06-48	Optical Transmitter, 1 GHz, 6mW/8 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-08-48	Optical Transmitter, 1 GHz, 8mW/9 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-10-48	Optical Transmitter, 1 GHz, 10mW/10 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-12-48	Optical Transmitter, 1 GHz, 12mW/10.8 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-14-48	Optical Transmitter, 1 GHz, 14mW/11.5 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-16-48	Optical Transmitter, 1 GHz, 16mW/12 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-18-48	Optical Transmitter, 1 GHz, 18mW/12.5 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power
QFCT1310-22-48	Optical Transmitter, 1 GHz, 22mW/13.5 dBm, 1310nm, DFB, SC/APC, 1RU, -48 VDC Power

Specifications subject to change without notice.

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