



BRIDG-IT OFT 1000

Optical Forward Transmitter 45 – 862 MHz

Features

- ▶ 1310 nm operation
- ▶ DFBII laser
- ▶ 45-860 MHz Passband
- ▶ Highly efficient switch mode power supply
- ▶ No alignments required
- ▶ Various powering modes
- ▶ All ports 5/8"
- ▶ Compact design



Description

The M-TEC BROADBAND OFT 1000 forward transmitter is a low cost, high performance transmitter, which can be implemented economically in all new and existing cable TV system architectures. Its compact, weatherproof design allows any CATV amplifier to be upgraded for interactive fiber optic use, simply by connecting the OFT 1000 to the amplifier's output port by means of a housing to housing adapter.

The transmitter has been designed for simplicity of installation and operation. No expensive optical test equipment is needed.

The output pigtail of the transmitter is connectorized, eliminating the need to fusion splice to the system fiber.

The OFT 1000 receives the RF signals through his input port; the signals are converted to light energy via the laser.

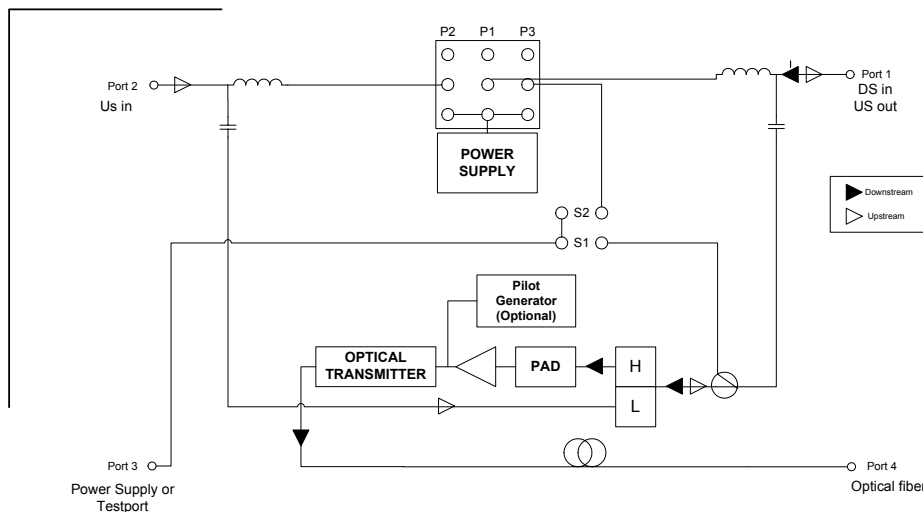
The optional pilot generator can make the OFT 1000 work together with AGC systems.

Each OFT 1000 is tuned in a way that an input level of 22 dBmV corresponds with 4,5% OMI.

The unit has a built-in, highly efficient switch mode power supply which can accept 30 to 60 Volt AC via the amplifier's output port.

Both AC and DC powering modes can also be provided through a separate 5/8" port.

Block Diagram



Order Information

MT	OFR	10	-	W	XX	YY	Z
				Diplex Filter	Connector	Pilot Generator	Options
				0 = none	FU = FC/UPC	00 = not present	0 = none
				1 = 25/45	SU = SC/UPC	43 = 43,4 MHz CW	
				2 = 30/45	F8 = FC/APC8°	78 = 78,0 MHz CW	
				3 = 65/85	F9 = FC/APC9°		
					S8 = SC/APC8°		
					S9 = SC/APC9°		
					LC = LC/UPC		
					MU = MU	Cx = Custom	
					E2 = E2000		

Specifications

RF specifications	
Input level (Port 1)	22 dBmV/channel for 4,5 % OMI
Flatness(*) 45 - 862 MHz	± 1 dB
(*) measured to reference receiver	
Return loss (Port 1 & 2)	< -16 dB
C/N (**)	50 dB
CSO (**)	60 dB
CTB (**)	60 dB
(**) with 29 channels and 9 km fiber	
Output power	
DFBII laser	2 mW (3 dBm)
Pilot generator (optional)	
Standard frequencies	43,4 MHz or 78,0 MHz (also custom requirements)
Level stability	±1,5 dB between 0 and 50 °C
Isolation Ports 1/2/3	> 30 dB
Isolation Ports 4	> 20 dB
Mechanical	
Size W x H x D	150 x 120 x 75 mm
Weight	700 gr
All ports	5/8 "
Power requirements	
Voltage	30 - 50 V sine- or 40-60 V square wave, 50 Hz
Power consumption	3 Watts.
Powering via:	RF input or output port or separate powering port
Environmental	
Operating temperature	-20 to +50 °C