



# 15Km 1550nm DIRECTLY MODULATED OPTICAL TRANSMITTER MODEL FTS-2615DDA

**Function** RF Video to 1550 nm wavelength optical signal conversion equipment, for transportation in PON networks with Video Overlay service. Operates with direct modulation, providing support for analogic and digital channels at CATV (47-862 MHz) and Satellite bands.

**Advantage** 60 Analog channels

<b>Interfaces</b>	<b>SNMP Management</b>	01 RJ-45
	<b>Optical</b>	01 SC-APC

Transmission Power	Parameter		Values			Complement
			Min.	Typ.	Max.	
	Operating wavelength	(nm)	1530	1550	1563	
	Wavelength stability	(Pm/°C)	-1		0	TC = 20~70 °C
	Side-mode supression ratio	(dB)	35			
	Equivalent noise temperature	(dB/Hz)			-155	
	Optical isolation	(dB)	30			
	Extinction ratio	(dB)	10		0	
	SBS	(dBm)	18			1550 nm
	Optical output power	(dBm)	4		10	1550 nm
	Optical return loss	(dB)	50			
	Optical connector		SC-APC			
	Transmission distance	(km)	Analogic TV: 15Km			

Frequency of Operation	RF					
	Parameter		Values		Complement	
			Min.	Max.		
	Operating bandwidth	(MHz)	45	862		
	Input level	dBmV	15	25	AGC	
	Flatness	(dB)	-1	+1	45~862 MHz	
	Return loss	(dB)	16			
	Input impedance	(Ω)	75			
	RF connection		F-female			
	Channel loading		PAL-D/60/CH			
	CNR (Carrier to Noise Ratio)	(dB)	50.5		PAL-D/60/CH	
	CTB (Composite Triple Beat Ratio)	(dB)		-63	1550nm	
	CSO (Composite Second Order)	(dB)		-58	1550nm≤600MHz	

Ratio)				-53	1550nm>600MHz
<b>IF</b>					
Parameter		Values			Complement
		Min.	Typ.	Max.	
Operating Wavelength	(MHz)	950		2600	
Input level	(dBm)	-40		-14	TG type, with IF amplifier
Flatness	(dB)		0.5		40 MHz
		-1.5		+1.5	950~2600MHz
Return loss	(dB)	12			
Input impedance	(Ω)	75			
RF connection		F-Fêmea			
C/IM3 (third order intermodulation)	(dB)	55			
CNR (Carrier to noise ratio)	(dB)	28			
LNB max. voltage	(V)		13/18		
LNB max. current	(mA)			300	

**Dimension** 482,6(W) x 44,45(H) x 266,7(D) mm - 5.3 kg

**Supply** 90 VAC ~ 265 VAC | 50 Hz ~ 60 Hz | 0.5 A

**Storage Temperature (°C)** -40 °C ~ +85 °C

**Operation Temperature (°C)** 0 °C ~ 50 °C

**Operating relative Humidity (%)** 5 % ~ 95% non-condensing

**Compatibility**

- 35510035 - 1U 22DBM OPTICAL AMPLIFIER MODEL FOA-22PDA (AC POWER SUPPLY)
- 35510036 - CATV VIDEO ONU 1 OUTPUT MODEL FRC-9122
- 35510037 - CATV VIDEO ONU 1 OUTPUT WITH WDM MODEL FRC-9122/WD
- 35510038 - CATV VIDEO ONU 1 OUTPUT MODEL FRC-9128
- 35510039 - CATV VIDEO ONU 1 OUTPUT WITH WDM MODEL FRC-9128/WD
- 35510040 - CATV VIDEO ONU 4 OUTPUTS MODEL FRC-9428

35510041 - CATV VIDEO ONU 4 OUTPUTS WITH WDM MODEL FRC-9428/WD

35510042 - CATV+IF-SAT VIDEO ONU MODEL FRS-26A

35510043 - CATV+IF-SAT VIDEO ONU MODEL FRS-26D

35510044 - CATV+IF-SAT VIDEO ONU WITH WDM MODEL FRS-26D/WD

35510045 - CATV+IF-SAT VIDEO ONU WITH WDM MODEL FRS-26A/WD

35510233 - 1U 22DBM OPTICAL AMPLIFIER MODEL FOA-22PDA (AC POWER SUPPLY) (EXPORT MODEL)

35510254 - 1U 22DBM OPTICAL AMPLIFIER MODEL FOA-22PD48 (DC POWER SUPPLY)

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## Warranty

- One-year warranty.
- Software Technical Validity: 365 days.

Warranty coverage and technical support service are conditional on the exclusive use of GPON Furukawa family equipment (OLTs, ONUs, Power Supplies, Transceivers, ...).

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## [Codification](#)