

TL2527 Digital MMDS Broadband Transmitter (Indoor Type)



Features:

Low LO phase noise, improving the transmission quality of digital signal

Low power consumption super linear design, enhancing transmitting power of the transmitter and reducing the nonlinear distortion

Aluminum structural design, easy to maintain

Small in size, easy for construction

With optical input interface, enabling remote emission

LCD display of microwave output power, working voltage, optical input power and other parameters

Indoor monitoring unit, detecting the microwave output power, signal quality and other parameters

Surface Mount Technology to ensure the consistency of the transmitter.

19 inches standard structure, independent power supply, elegant appearance, flexibly matching



Technical Specification:

Electrical Signal Parameters

» Parameters	» Symbols	» Minimum	» Typical	» Maximum	» Unit
» Output Frequency Range	» FOUT	» 2500		» 2700	» MHz
» Output Power	» P1 dB	» 5 10 30 50 100 200			» W
» Conversion Gain Flatness @200MHz Bandwidth	» G200MHz		» 1	» 2	» dB
» Input Frequency Range	» FIN	» 2500-LO		» 2700-LO	» MHz
» Input Signal Level	» PIN	» 75	» 85	» 95	» dBuV
» Gain Numerical Control Attenuation Range (4-bit)	» Atten	» 0		» 15	» dB
» AGC Range	» GAGC		» ±5/±0.5		» dB
» Output Power Stability (AGC State)	» POUT		» 1		» dB
» LO SSB Phase Noise@10KHz	» Ng		» -95	» 90	» dB/Hz
» Group Delay	» GD			» 20	» ns
» Input Port Return Loss		» 14			» dB
» Output Port Return Loss		» 17			» dB
» Input Port Impedance/Connector	» 50Ω/N-50K				
» Output Port Impedance/Connector	» 50Ω/N-50K				

Optical Signal Parameters (Optional)

» Parameters	» Unit	» Technical Specification
» Optical Wavelength	» nm	» 1300-1600
» Rated Optical Input Power	» dBm	» -1
» Input Optical Power Range	» dBm	» -5 ~ +2
» Max Input Optical Power	» dBm	» 3dBm
» Optical Connector		» FC/APC
» Optical Reflection Loss	» dB	» ≥45
» Output Impedance	» Ω	» 50
» Output Reflection Loss	» dB	» ≥12
» Output Level	» dBuV	» 85 (-1dBm Optical Input)
» In-band Flatness	» dB	» ≤ 1

Others

» Parameters	» Unit	» Technical Specification
» Weight	» 30 W	» About 21Kg
	» 50 W	» About 25Kg
	» 100 W	» About 40Kg
	» 200 W	» About 75Kg
» Dimension	» 30 W	» 615 (Length) *430 (Width) *130 (Height)
	» 50 W	» 615 (Length) *430 (Width) *130 (Height)
	» 100 W	» 615 (Length) *430 (Width) *172 (Height)
	» 200 W	» 615 (Length) *430 (Width) *218 (Height)
» Operation Temperature		» -20 ~45
» Power Consumption	» 30 W	» About 135VA
	» 50 W	» About 250VA
	» 100 W	» About 430VA
	» 200 W	» About 750VA