

TL2527 Digital MMDS Broadband Transmitter (Outdoor 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

Outdoor design, improving the effective transmitting power and reducing feeder loss

Outdoor design, saving waveguide which can reduce the system cost

Small in size, easy for construction

Self-cooling, it is good for improving the reliability of equipment

Aluminum structural design, easy to maintain

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

With optical input interface, enabling remote emission



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

» 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	» 1 W	» About 10Kg
	» 5 W	» About 16Kg
	» 10 W	» About 18Kg
	» 30 W	» About 25Kg
	» 50 W	» About 35Kg
	» 100 W	» About 45Kg
	» 200 W	» About 90Kg
	» Dimension	» 1 W
» 5 W		» 440 (Length) *250 (Width) *180 (Height)
» 10 W		» 520 (Length) *380 (Width) *220 (Height)
» 30 W		» 480 (length) *620 (Width) *240 (Height)
» 50 W		» 680 (Length) *620 (Width) *240 (Height)
» 100 W		» 850 (Length) *620 (Width) *240 (Height)
» 200 W		» 850 (Length) *620 (Width) *240 (Height)
» Operation Temperature		
» Power Consumption	» 1 W	» About 50VA
	» 5 W	» About 63VA
	» 10 W	» About 110VA
	» 30 W	» About 135VA
	» 50 W	» About 250VA
	» 100 W	» About 430VA
	» 200 W	» About 750VA



Purchase Guide:

1. LO: 1900MHz

2. LO: 2033MHz
3. User can specify the LO frequency.