

# FUTV3627 Digital MMDS Broadband Transmitter (Outdoor Model)



## Key Features

- | Low LO phase noise, enhanced signal transmission quality;
- | Low consumption and super linear design, improved transmitting power and reduced non-linear distortion;
- | Outdoor design to improve the transmitting power and reduce feeder consumption;
- | Outdoor design to leave out the waveguide and reduce system cost;

- | Miniaturization design for easier constructing;
- | Self-cooled design improving the device reliability;
- | Aluminum shell with modular structure for easy maintains;
- | Indoor monitoring for the microwave and signal quality and other parameters;
- | Optical input interface to realize transmitting signals in different places

## Technical Data

### Electrical Signal Specifications

Parameters	Symbol	Minimum	Typical	Max	Unit
Output freq range	FOUT	2500		2700	MHz
Output power	P1 dB	5 10 30 50 100 200	5 10 30 50 100 200	5 10 30 50 100 200	W
Frequency conversion gain flatnessat200Mhz bandwidth	G200MHz		1	2	dB
Input freq range	FIN	2500-LO		2700-LO	MHz
Input Level	PIN	75	85	95	dB $\mu$ V
Gain numerical control	Atten	1		15	dB
AGC range	GAGC		$\pm 5/\pm 0.5$		dB
AGC state	POUT		1		dB
LO SSB phase noiseat10KHz	Ng		-95	95	dB/Hz

Group delay	GD			20	nS
Input port echo wastage		14			dB
Output port echo wastage		17			dB
Input port impedance/connector	50Ohm/N-50K				
Output port impedance/connector	50Ohm/N-50K				

## Optical Signal Specifications

Parameters	Unit	Standard
Wave length	Nm	1300-1600
Nominal input	dBm	-1
Inputting power	dBm	-5~+2
Max Inputting Power	dBm	+3dBm
Connector		FC/APC
Reflection Loss	dB	45
Output impedance	W	50
Output reflection loss	dB	12
Output level	dB $\mu$ v	85
in-band flatness	dB	1

## Others

Parameters	Unit	
Weight	1W	10KG
	5W	16KG
	10W	18KG
	30W	25KG
	50W	35KG
	100W	80KG
	200W	90KG
Dimension	1W	250(L)*160(H)*120(W)
	5W	440(L)*250(H)*180(W)
	10W	520(L)*380(H)*220(W)
	30W	480(L)*620(H)*240(W)
	50W	680(L)*620(H)*240(W)
	100W	850(L)*620(H)*240(W)
	200W	850(L)*620(H)*240(W)
Temperature	20 G-45 C	
Consumption	1W	50VA
	5W	63VA
	10W	110VA
	30W	135VA
	50W	250VA
	100W	430VA
	200W	750VA