10KW FM Transmitter

Function:

All-solid-state circuit design and combined transmission of video\ audio carrier, convenient to upgrade to digital TV transmitter.With dual professional TV exciter for optional demands and advanced RF non-linearity correction technology are able to guarantee the reliability and stability of TV signal distortion. The hot-plug power units could backup each other, ensure that there is no single fault of transmitter. Super-linearity and broadband of power amplifier modules are modularized designed and adopted high gain LDMOS high-power FET, this device has high redundancy, perfect self-check function and easy to install and maintain.New type output filter (low-pass or band pass available). With adopted high-power synthesis technology, low insertion loss, high out-of -band suppression.Local or remote control, friendly man-machine interface by microcomputer unit, eight inch color touch display screen, it can display and control the operating mode exciters, power amplifier units and transmitter, with GSM message auto alarm module, and fixed timing starting up and shutdown functions.With self intellectual property rights. Develop exciter, power amplifier, power combiner, monitoring system independently.Wide voltage stability range and high efficiency of power supply.With over-voltage, over-current, over-heat, over-excitation, low-voltage, short-circuit and over-

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VSWR auto-protective functions. with multiple-measure of thunder-proof, it could run securely.Forced air cooling design with low power consumption and low noise.All technical specifications can meet or exceed the national standards.

Technical Specification:

» RF Specifications	
» Rated Output Power	» 10kW
» Frequency Range	» 87~108MHz
» Carrier Frequency Deviation	» ±1ppm (-10~50)
» Load Impedance	» 50Ω
» Output Connector	» 3 1/8" flange
» Residual Wave Radiation	» <1mW and < 60dB relative carrier
» Output Power Deviation	» ±10% Impedance: 50Ω
» Audio Specifications	
» Input Connector	» XLR (Bal. or Unb.)
» Input Impedance	» 600Ω Bal.(or) 10KΩUnb.
» Input Level	» -13dBm~+13dBm
» Pre-emphases	» 50μs(Allowing deviation in dual standard curves: -2 dB)
» Max Frequency Deviation	» ±75kHz
» Max Modulation Capacity	» ±100kHz
» Audio Frequency Response	» ±0.5dB(30Hz~15kHz)
» Total Harmonic Distortion	» <0.2% (ΔF±75kHz , 30Hz~15kHz); <0.5% (ΔF±100kHz, 30Hz~15kHz)
» Pilot Frequency	» 19kHz±1Hz
» Percentage of Pilot Signal Modulation	» 8%~10%
» Pilot Signal Phase Deviation	» ±5°
» Sub-carrier Suppression	» >45dB
» L/R Signal Level Difference	» <0.5dB(30Hz~15kHz)
» Stereo Separation	» ≥50dB (100Hz~10kHz); ≥45dB(30Hz~15kHz)
» Stereo Separation	» <-55dB Unmodulated
» FM S/N Ratio	» >70dB
» Environmental Factors	
» Working Temperature	» -10~+50
» Relative Humidity	» 95% (25 No condensation at 25
» Atmosphere Pressure	» 86~106Kpa
» Power Supply	» 3-Phase AC 380V±15% 50Hz±10%
» Cooling	» Forced air cooling with built-in fan
» Machine Room	» Few dust, No oscillation and impact
» Dimensions	» 2000(H)×1200(W)×1000(D)mm3

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