

DAR-1100T

Model Description: DAR-1100T is an exciter for ATSC Multi Frequency Network (MFN) DTV transmitters and repeaters.



Main Features

- Adaptive pre-corrector: Auto compensation of linear and nonlinear predistortion
- Measurement of transmission signal quality (RFA300A): SNR, frequency response, group delay, AM/PM error, peak to average, out of emission

Electric Specification

- Output Power: 10~15dBm
- Frequency Response: $\leq \pm 0.5\text{dB}$
- Group Delay: $\leq \pm 25\text{ns}$
- Phase Noise: $-107\text{dBc/Hz}@20\text{kHz}$ offset
- Peak to Average: $6.4\text{dB}@0.1\%$
- Carrier Stability: $\leq \pm 0.5\text{ppm}$
- Amplitude Error: $\leq \pm 0.5\text{dB}$
- Phase Error: $\leq \pm 5\text{deg}$
- Pilot Amplitude Error: $\leq \pm 0.5\text{dB}$
- Frequency Band: UHF CH14 ~ 69 (470~803MHz)

General Specification

- Dimensions (mm): 485 (W) \times 42 (H) \times 556 (D)
- Input: TS 2port, FB, 10M In
- Output: RF Out, RF Mon.
- External Connection: Ethernet, D-sub15pin, USB (RS-232)
- Current Consumption: 30W
- Supply Voltage: 70 ~ 245VAC, 60Hz
- Operating Temperature: $-10 \sim +45^\circ\text{C}$
- Others: Internal demodulator