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DSK-300-S & DSK-550 FREQUENCY AGILE TV MODULATORS

Features / Benefits

- Portable “Desk Top” chassis design
- The **DSK-300-S** (sub-band) modulator features 7MHz to 300MHz agility
- The **DSK-550** modulator features agility 55.25MHz to 550MHz
- Front panel channel selection
- >80dB out-of-band C/N ratio
- +45dBmV output level
- >60dB spurious free dynamic range
- BTSC stereo compatible
- Low power consumption for long term reliability



The **DSK-300-S** and **DSK-550** are high quality frequency agile modulators designed into a compact, 1.75”H x 8.27”W x 5.73”D chassis complete with power supply. The **DSK-550** has a frequency output range of 55.25MHz thru 547.25MHz while the **DSK-300-S** is capable of selecting sub-band outputs from 7MHz (Ch.T-7) thru 295.25MHz (Ch. W). All channels are selectable by front panel DIP switches. F.C.C. offsets are selectable by front panel adjustment. Quality features such as >80dB out-of-band C/N ratio, >60dB spurious output, BTSC compatibility, +45dBmV output power level, and very low power consumption, all combine to make these units ideal for such applications as:

- Forward and return band agile modulators for mobile educational carts.
- Compact and portable agile modulators for system, or head-end repair trucks.
- Agile modulators for channel transmission of security cameras or other security system applications.
- Anywhere a high quality, compact, cost effective video modulator is needed.

Quality / Engineering / Innovation

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DSK-300-S & DSK-550



SPECIFICATIONS

FREQUENCY OUTPUT

DSK-300-S..... Channel T-7 (7MHz) through channel W (300MHz)
DSK-550..... Channel Ch.2 (55.25MHz) through Ch.78 (547.25MHz)
All channels are selectable by front panel DIP switches in 2MHz increments with 250KHz adjustments performed by internal switch

F.C.C offset..... +12.5KHz tunable by front panel adjustment
Output power levels..... +45dBmV typical per channel
Frequency accuracy/stability..... <±5KHz of selected channel frequency
Video performance..... 1V P-P input nominal for 87.5% modulation
Differential gain <5% Differential phase <5°
Spurious outputs..... >60dB below output visual carrier level
Out-of-band C/N ratio..... >80dB as measured in a 4.0MHz noise bandwidth
In-band C/N ratio..... >60dB as measured in a 4.0MHz noise bandwidth
Audio/Video ratio..... Adjustable from 13dB to 20dB below video carrier
Audio performance..... 500mV P-P for 25KHz deviation, front panel adjustable. 10K input Z
Audio intercarrier stability..... 4.5MHz within ±1KHz
BTSC stereo/mono..... Internal defeat of audio pre-emphasis for BTSC baseband inputs.
Shipped in mono mode
Front panel controls..... RF out adjust and A/V ratio adjust
Audio/Video modulation
Channel select DIP switches and F.C.C. offset adjust
Rear panel connectors..... RCA type video/audio input
Type F RF output
Power consumption..... <12 watts
Chassis size..... 1.75”H x 8.27”W x 5.73”D