



QUALITY CABLE & ELECTRONICS, INC.

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KPAM-520

MINI AGILE MODULATOR

Front Chassis View



Features:

- 135 channel range: 54-860MHz (CATV 2-135)
- >45dBmV min adjustment output for optimum carrier-to-noise performance
- Microprocessor control enables quick digital push-button channel selection
- In-band carrier-to-noise ratio >65dB ensures superior picture quality
- Automatic selection of aeronautical offsets (12.5KHz, 25kHz)
- Front panel access to controls allows easy set-up
- Channel setting memory in event of power failure

Rear Chassis View



Description and Application:

The QCE KPAM-50 is a professional grade microprocessor-controlled agile audio/video mini-modulator. This modulator accepts any audio-video baseband television signal and provides a 45dBmV minimum output on CATV channels 2 to 135 (54-850MHz). Channel selection is easily accomplished via channel up/down buttons located in the front. Up to 10 KPAM-520 mini-modulators units can be installed in the KPAMC-520 chassis. The units's PLL circuitry, in conjunction with the non-volatile memory contained in the microprocessor, ensures easy and reliable channel selection and restoration. The KPAM-520 modulator is shipped with all internal adjustments preset.



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Technical Specifications

KPAM-520

KPAM-520 Mini Agile Modulator Card	
RF	
Frequency Range	54 to 860 MHz Standard CATV channels 2 to 135 Broadcast TV channels 2 to 69
Output Level	+45dBmV (minimum -15db adjustment range)
Output Impedance	75 ohm
A/V	Audio carrier level adjustment from -18 to -11db (\pm 2db) Referenced to video carrier level
Frequency Stability	\pm 5 KHz
Intercarrier Frequency	435Mhz \pm 0.5Khz, 60dBc typical, measured at -15db A/V ratio
Spurious Outputs	-60dBc typical with output modulator set at +45dBmV
Video	
Input Level for 87.5% Modulation	0.6VP-P to 1.5VP-P, manual gain adjustment w/front panel control
Input Impedance	75 ohm
Frequency Response	20Hz to 4.2 MHz
Audio	
Input Level for 25 KHz	100mVrms to 3Vrms
Peak Deviation	Manual gain adjustment with front panel control
Input Impedance	Greater than 10K ohms, unbalanced
Pre-Emphasis	75 U Sec, defeat able by internal jumper for BTSC base band stereo capability
General	
DC Power Input	\pm 12V \pm 5% at 200mA typical, 230mA maximum 5V \pm 5% at 320mA typical, 380mA maximum
Operating Temperature	0° to 122° F (0° to 50° C)
Dimensions	98"W x 7.48"D x 3.5"H

AMPS-520 POWER SUPPLY MODULE	
AC Input	90-260 VAC (50-60Hz)
DC Output	5VDC & 12VDC
Output Current	1 ampere (5VDC) 1.5 ampere (12VDC)
Protection	Short circuit & overload
Ripple	80mVp-p (DC: 5V/AC -115-220V) 80mVp-p (DC:12V/AC -115-220V)

Note: MP-520 Power Supply Module includes cable harness.

Specification are subject to change without notice.



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