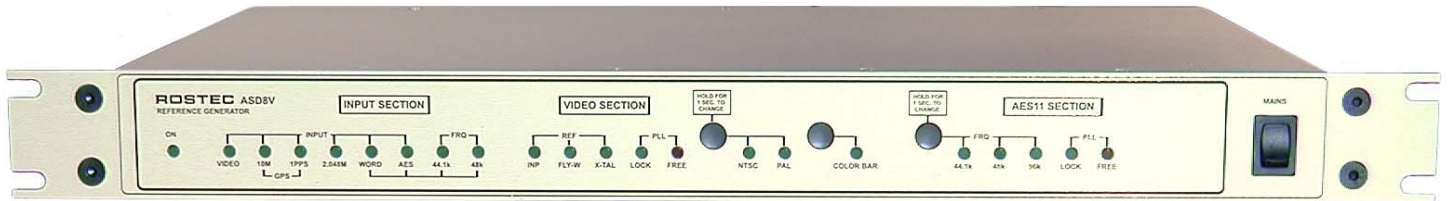


ASD8V Reference Generator



ROSTEC ASD8V Reference Generator

Product update for Revision 6.4

Units purchased after Sep.1, 2006
Serial numbers starting at 7801N

ASD8V Reference Generator

A new type of crystal is now used in the main crystal oscillator. The result is an increase in frequency stability and a decrease in capture range.

The capture range has been decreased from +/- 30 ppm to +/- 15 ppm. This causes slightly longer lock times, but has the advantage of limiting the deviation from the center frequency when a faulty sync signal is used to synchronize the generator.

The frequency stability has been increased from +/- 0.3 ppm 0 – 50 deg.C to +/- 0.15 ppm 0 – 50 deg.C. This, of course, only has meaning when the generator is used as a reference, i.e. operates without extern sync input

Mechanical and electrical specifications:

Dimensions : Width 19 inch, height 1U (44 mm), depth 320 mm

Weight : 5.5 kg

Power requirements : 180 - 240 VAC 50 Hz, 10 Watts (EU Version)
: 80 – 130 VAC 60 Hz, 10 Watts (USA Version)

Reference Inputs : Composite PAL/NTSC/SECAM Video, balanced, unterminated 1 kOhms, 0.1 -3.0 V PP
: 10 MHz clock, 10 kOhms, TTL level
: 1PPS clock, 10 kOhms, TTL level
: 2.048 MHz clock, 10 kOhms, TTL level
: Optional 2 Mbit E1 CCITT G703/G704 transformer balanced input, 75 Ohms
: SDIF-2 word clock, 10 kOhms, TTL level
: AES balanced 110 ohms 0.2 -5.0 V PP

Outputs : Composite Video 75 Ohms SMPTE/EBU level
: PAL (B) 25 Hz, 625 lines interlaced or NTSC 29.97 Hz, 525 lines interlaced
: AES11 transformer balanced 110 ohms, 4.5 V PP into 110 Ohms
: SDIF-2 word clock, 75 Ohms, TTL level
: AUX outputs, configurable, 75 Ohms, TTL level/300 mV video level
: No-sync alarm relay, SPDT 100V 0.5A

Stability/accuracy : Oven crystal accuracy 0.2 ppm/25 deg. C, stability +/-0.15 ppm 0/+50 deg. C
: Hue accuracy > 0.5 degrees
: SC-H phase accuracy > 2 degrees
: PLL capture range +/-15 ppm.
: PLL jitter video outputs < 1 nsec
: PLL jitter AES outputs < 1 nsec
: PLL jitter Word outputs < 1 nsec
: PLL wander video frame input/video frame output < 2 nsec
: PLL wander 10 MHz input/video output < 1 nsec
: PLL wander 2.048 MHz input/video output < 1nsec
: PLL wander word input/video output < 1nsec
: PLL wander AES input/video output < 1nsec