

FEATURES:

- 239 - 386 MHz FREQUENCY RANGE
- HIGH SENSITIVITY
- MULTIPLE SIGNAL HANDLING
- TTL COMPATIBLE
- 300 nS PROCESSING TIME
- 1 MHz FREQUENCY ACCURACY
- BUILT-IN SDLA



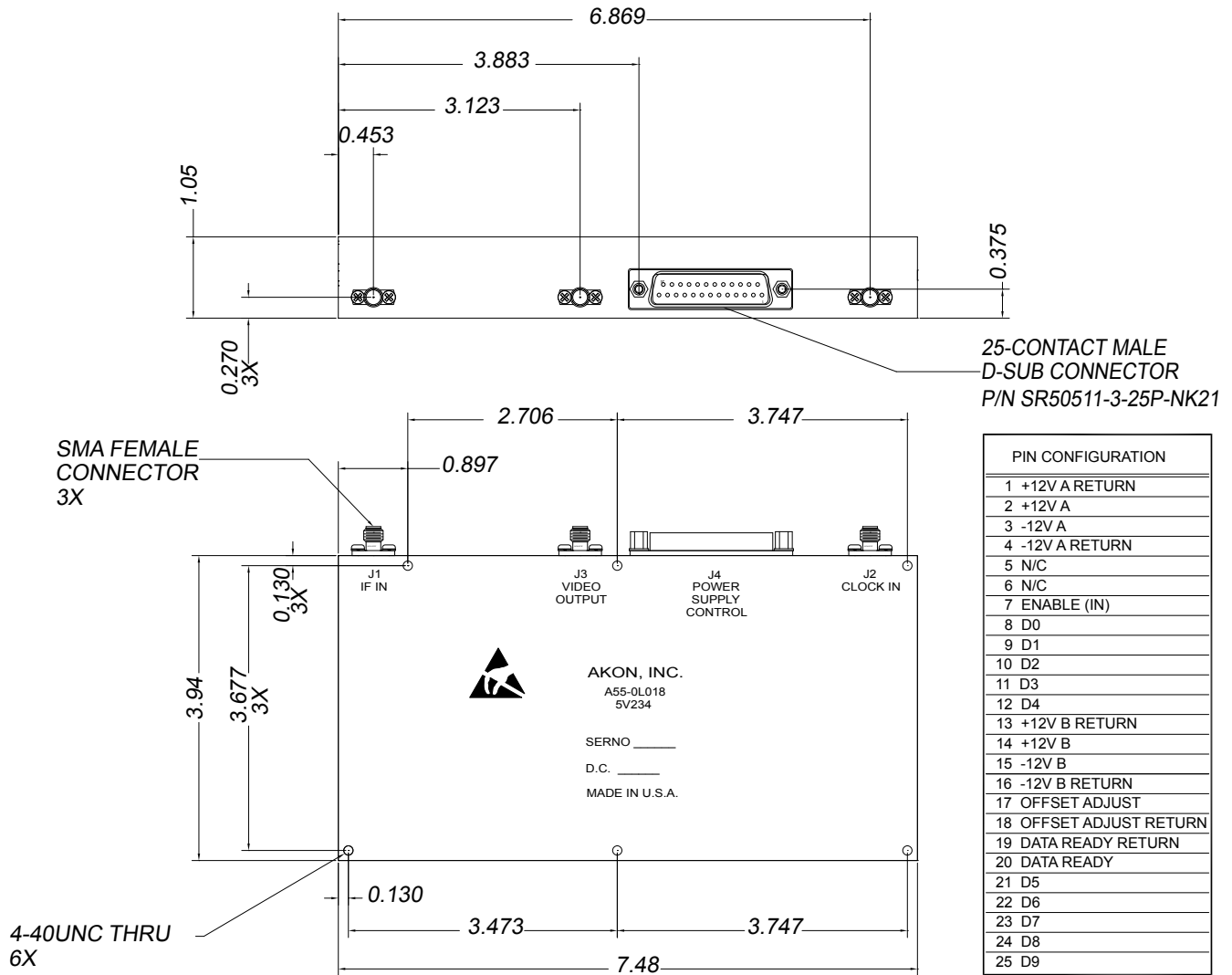
AKON is a leading manufacturer of RF/microwave components and subsystems for military, space and commercial applications. AKON's product line includes high reliability, custom integrated microwave assemblies, DFD receivers, microwave receiver front-ends, RF switching matrices, frequency synthesizers, custom LO assemblies, frequency converters, RF switches, digitally controlled attenuators, miniature RF filters and switches, and microwave amplifiers covering 2.0 - 18.0 GHz frequency range (up to 40.0 GHz for some applications). AKON is qualified to MIL-I-45208 Quality System Requirements by agencies of the U.S. Department of Defense and by leading foreign and domestic military OEMs. All specifications are valid over the full operating temperature unless otherwise indicated.

SPECIFICATIONS:

| | | |
|----------------------------------|--|---------------------|
| Model Number | A55-OL018 | |
| Frequency Range (MHz) | 239 - 386 | |
| Dynamic Range (dBm) | -65 to -5 | |
| Operating Bandwidth (MHz) | 147 | |
| Input Signal to Noise Ratio (dB) | 5 | |
| Pulse Width (nS) | 50 (min) (up to CW) | |
| Frequency Resolution (MHz) | 0.14 (10 bits) | |
| Frequency Accuracy (MHz) | < 1 (RMS) | |
| Digital Controls | TTL compatible | |
| Processing Time (nS) | 300 (max) (from external enable input to valid data ready) | |
| Video Output (Logarithmic) | Logarithmic Slope (mV/dB) | 30 +/- 10% |
| | Logging Range | -65 to -5 dBm (min) |
| | Log Linearity | +/- 1 dB |
| | Log Accuracy | +/- 1.5 dB |
| | Log Accuracy | +/- 2.0 dB (max) |
| | Log Linearity | +/- 1.5 dB (max) |
| | Rise Time (Pulse Input) | 15.0 nS |
| | Fall Time (90% to 10%output) | 25 nS |
| | DC Offset (RF input terminated to 50Ω) | 50 mV +/- 20.0 mV |
| | Video Output Noise Level | 10 mV p - p (nom) |
| | Video Output Flatness | +/- 0.75 dB |
| Power Supply (VDC) | +12 +/- 10% @ 1000 mA (max) -12 +/- 10% @ 400 mA (max) +5 +/- 10% @ 200 mA (max) | |

Note: All dimensions are specified in inches (mm)

OUTLINE DRAWING:



| PIN CONFIGURATION | |
|-------------------|----------------------|
| 1 | +12V A RETURN |
| 2 | +12V A |
| 3 | -12V A |
| 4 | -12V A RETURN |
| 5 | N/C |
| 6 | N/C |
| 7 | ENABLE (IN) |
| 8 | D0 |
| 9 | D1 |
| 10 | D2 |
| 11 | D3 |
| 12 | D4 |
| 13 | +12V B RETURN |
| 14 | +12V B |
| 15 | -12V B |
| 16 | -12V B RETURN |
| 17 | OFFSET ADJUST |
| 18 | OFFSET ADJUST RETURN |
| 19 | DATA READY RETURN |
| 20 | DATA READY |
| 21 | D5 |
| 22 | D6 |
| 23 | D7 |
| 24 | D8 |
| 25 | D9 |