

**FEATURES:**

- 6.0 - 18.0 GHz FREQUENCY RANGE
- 100 nS RESPONSE TIME
- TTL INTERFACE
- AMPLITUDE CONTROL OVER 60 dB
- HARMONICS -20 dBc (-60 dBc WITH SFB)
- LOW PHASE NOISE
- 100 MHz STEP SIZE
- CRYSTAL REFERENCE



**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:**

<b>Model Number</b>	<b>A75-WH002</b>
<b>RF Output Port 1 (GHz)</b>	<b>5.5 (Fixed)</b>
<b>RF Output Port 2 (GHz)</b>	<b>6.0 - 18.0 (Tunable)</b>
<b>Step Size (MHz) * (see options)</b>	<b>100</b>
<b>Setting Accuracy (ppm)</b>	<b>+/- 30</b>
<b>Setting Time (nS)</b>	<b>100 (max)</b>
<b>Output Power Level (dBm)</b>	<b>10 (min)</b>
<b>Spurious (dBc)</b>	<b>-50</b>
<b>Harmonics (dBc)</b>	<b>-60</b>
<b>Phase Noise (dBc/Hz)</b>	<b>-90 @ 1 KHz -110 @ 10 KHz -115 @ 100 KHz</b>
<b>Power Supply (VDC)</b>	<b>+/- 8 or +/- 15</b>
<b>Synthesizer Control Discrete Lines</b>	<b>Digital Tuning (TTL Logic)</b>
<b>Operating Temperature (°C)</b>	<b>-40 to +71</b>
<b>Options:</b>	
<b>1. Frequency Range (GHz)</b>	<b>0.5 to 30.0</b>
<b>2. Step Size (MHz)</b>	<b>10, 100 or 500</b>

Note: All dimensions are specified in inches (mm)

## OUTLINE DRAWING:

