

FEATURES:

- EXTREMELY HIGH SPEED: 70 ns
- 500 MHz STEP SIZE VARIABLE OUTPUT
- FIXED 5.5 GHz OUTPUT
- 5 BITS SINGLE ENDED TTL CONTROL
- +/- 8V POWER SUPPLY
- EXTERNAL REFERENCE INPUT OPTION
- HIGH STABILITY OCXO
- FREQUENCIES GENERATED BY DIRECT MULTIPLICATION, MIXING, FILTERING AND SWITCHING
- MULTIPLE OUTPUTS CAN DRIVE MULTIPLE TUNERS



AKON is a leading manufacturer of RF/microwave components and subsystems for military, space and commercial applications.

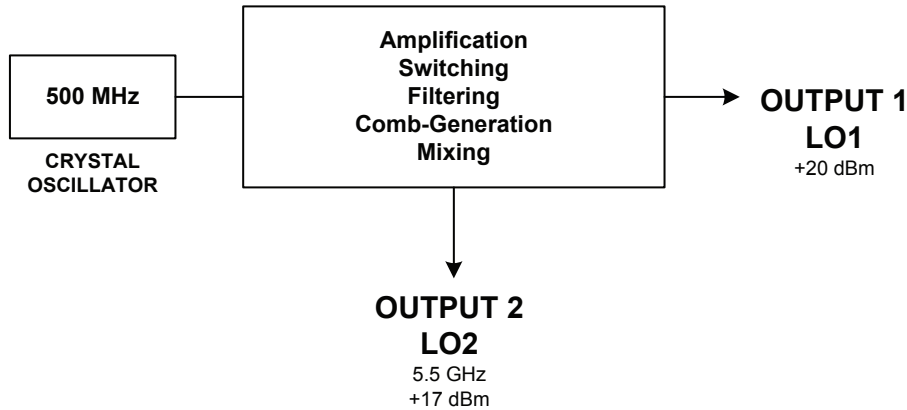
AKON's product line includes high reliability, custom integrated microwave assemblies, DFD receivers, microwave receiver front-ends, RF switching matrices, frequency synthesizers, custom LO assemblies, frequency converters, RF switches, digitally controlled attenuators, miniature RF filters and switches, and microwave amplifiers covering 0.5 - 18.0 GHz frequency range (up to 40 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:

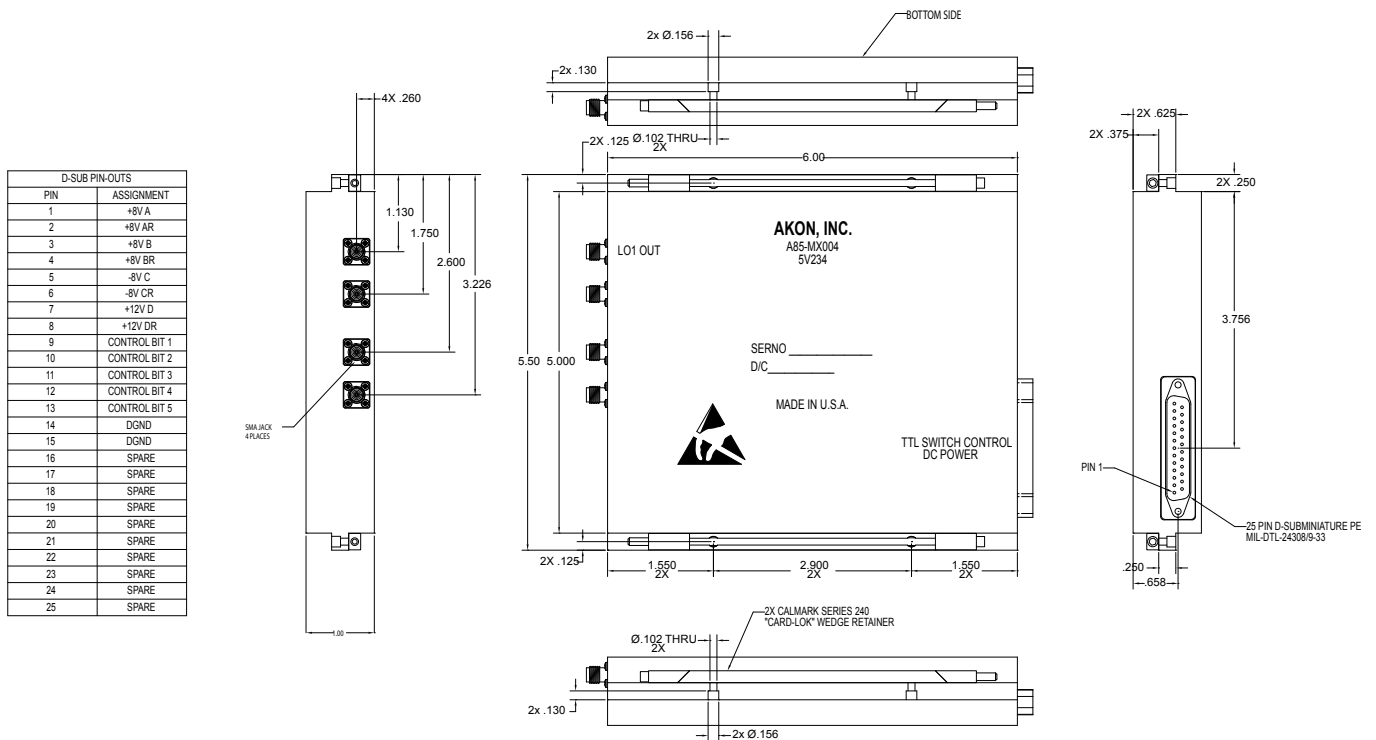
Model Number	A85-MX004
Frequency Range (GHz)	9.5 - 18.5
Step Size (MHz)	500
# of LO Ports per each output	2
Output 1	Variable- 500 MHz Step
Output 2	Fixed 5.5 GHz
Output 1 (dBm)	+20 (nom)
Output 2 (dBm)	+17 (nom)
Control (Bits)	5 (single ended TTL)
Speed (nS)	70 (max)
Harmonics (dBc)	-50 (nom)
Frequency Accuracy (ppm)	+/- 30 (max)
Spurious (dBc)	-50 (nom)
Power Supply	+8V / -8V DC
WedgeLock	On 6.0" x 1.0" side

Note: All dimensions are specified in inches (mm)

BLOCK DIAGRAM:



OUTLINE DRAWING:



D-SUB PIN-OUTS	
PIN	ASSIGNMENT
1	+8V A
2	+8V AR
3	+8V B
4	+8V BR
5	-8V C
6	-8V CR
7	+12V D
8	+12V DR
9	CONTROL BIT 1
10	CONTROL BIT 2
11	CONTROL BIT 3
12	CONTROL BIT 4
13	CONTROL BIT 5
14	DGND
15	DGND
16	SPARE
17	SPARE
18	SPARE
19	SPARE
20	SPARE
21	SPARE
22	SPARE
23	SPARE
24	SPARE
25	SPARE