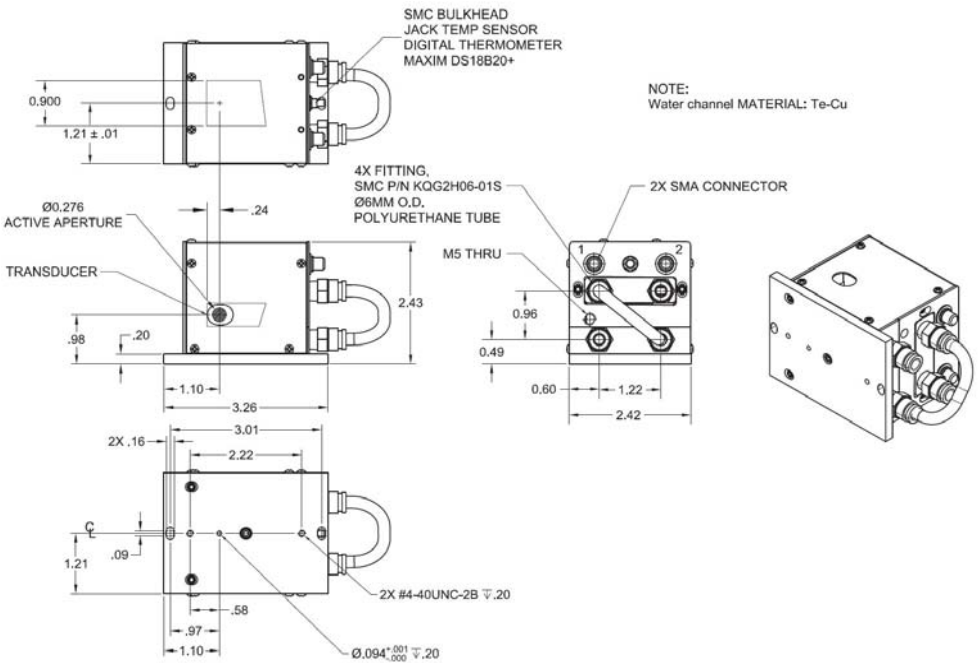
SPECIFICATIONS

AO Medium	Crystal Quartz
Acoustic Mode	Longitudinal
Acoustic Velocity	5.74mm/µs
Wavelength	343 & 355nm
Input Polarization	90° to Mounting Plane
Output Polarization	90° to Mounting Plane
Insertion Loss	1%
Center Frequency (Fc)	170MHz
RF Bandwidth	60 MHz
RF Power	<16W
Active Aperture	7 mm dia.
Average Diffraction Efficiency	
Flatness Across Bandwidth	
Min Diffraction Efficiency	>85%
Peak Valley at 633 nm	0.2
RMS at 633 nm	N/A
VSWR	1.8:1
Scan Angle	3.7 mrad
Time Bandwidth	N/A

OUTLINE DRAWING



Notes:

1. 2 element phased array. RF splitter and delay line sold separately
2. Input Impedance 50 Ohms.
3. Unit to be water cooled 2-3/L min. @<25C. Water channels Te-Cu.
4. Mechanical Outline per 97-03430-01-15.
5. Bragg Input Alignment=5mrad nominal.
6. Separation angle at 170MHz: 10.5mrad @ 355nm,10.1mrad @ 343nm

Document

10/05/23

Control

TOLERANCES: .XX ± .01 .XXX ± .005	DR	T.Ng 10/5/2023	Gooch & Housego	
MATERIAL:	CHK		DESCRIPTION: **AODF 4170 Quartz 355nm** 2 Elec. Phased Array	
FINISH:	APP			
	APP		PART NUMBER: 97-03430-01	REV: 4 SHEET 1 OF 1