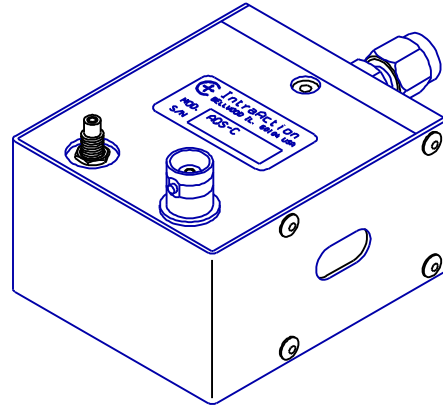


Q-SWITCH

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MODEL AQS-C SERIES BREWSTER WINDOW ACOUSTO-OPTIC Q-SWITCH

- Cavity Loss Modulation
- Brewster Windows
- W / Low OH⁻ Content Material
- High Optical Power Capability
- High Reliability
- Excellent Temp. Stability



SPECIFICATIONS

Optical Power Capability	500 Mwatts/cm ²
Optical Rise Time	160 nsec/mm optical beam diameter
Static Optical Insertion Loss	0.3 percent
Optical Polarization	Perpendicular to mounting surface
Input Impedance/VSWR	50 ohms/1.25
RF Connector	BNC
Heat Exchange	Water cooled 250 ml/min
Size (less connectors)	2.73 D x 1.50 H x 2.5 W inches 6.94 D x 3.81 H x 6.4 W cm

MODEL

	AQS-245C1 AQS-275C1	AQS-245CW1 AQS-275CW1	AQS-244CW12
Optical Wavelength	.7 - 1.1 microns	1.32 microns	2 microns
Fused Silica Material	standard 4101	low OH ⁻ content	low OH ⁻ content
Center Frequency ¹	24 MHz 27.12 MHz	24 MHz 27.12 MHz	24 MHz
Beam Separation	4.3 mrad(1.06μm) 4.8 mrad(1.06μm)	5.3 mrad 6.0 mrad	8.1 mrad
Active Aperture ²	3 x 12 mm	3 x 12 mm	2.5 x 12 mm
Loss Efficiency	40 percent	40 percent	40 percent
RF Drive Power ³	12 watts(1.06μm) ³	20 watts	40 watts

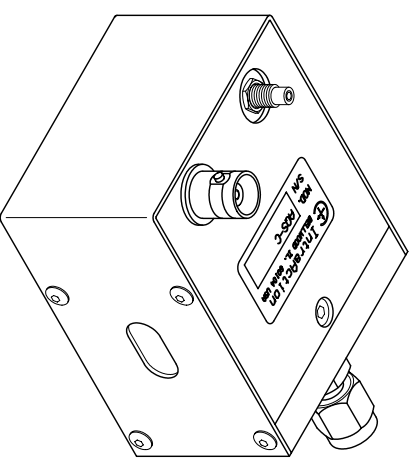
¹ Other frequencies are available.

² Active aperture heights to 4 mm are available.

³ RF drive power required is proportional to optical wavelength squared.

ISSUE	DESCRIPTION	APPD/DATE
ORIGINAL	GJK 03-07-92	JL

ALL REVISIONS TO THIS DRAWING
MUST BE MADE ON THE CAD SYSTEM



UNLESS OTHERWISE SPECIFIED TOLERANCES AND DIMENSIONS ARE IN INCHES		APPROVED DATE JL 03-09-92		 IntraAction Corp. 3719 MARGEN AVE. BELLWOOD, IL 60104 PHONE (708) 547-6644	
LINEAR : .XX ±.010 (XX.X)=mm .XXX±.005		CHECKED DATE JL 03-09-92		TITLE AQS-C SERIES Q-SWITCH	
ANGULAR ± / DIAMETERS ± / LIMITS APPLY BEFORE FINISHING DO NOT SCALE THIS PRINT		DRAWN DATE GJK 03-07-92			
MATERIAL _____		FINISH _____			
MEG. INSTR.				FSCM NO.	
Q.C. INSTR.				B DWG. NO.	
				AQS-C OUTLINE	
SCALE FULL		UNIT WEIGHT		SHEET 1 OF 1	
				ISSUE	