



### ACOUSTO-OPTIC WORKSHEET

DATE: \_\_\_\_\_ CUSTOMER: \_\_\_\_\_

#### LASER DETAILS

LASER TYPE \_\_\_\_\_

WAVELENGTH ( $\lambda$ ) \_\_\_\_\_ WAVELENGTH RANGE \_\_\_\_\_

BEAM DIAMETER (d) \_\_\_\_\_ OPTICAL POWER \_\_\_\_\_

POLARIZED:  NO  YES:  HORIZONTAL  VERTICAL

DIFFRACTION LIMITED:  YES  NO: DIVERGENCE \_\_\_\_\_

#### Select Application From Below...

##### AMPLITUDE MODULATION

MINIMUM ACCEPTABLE DIFFRACTION EFFICIENCY \_\_\_\_\_

MODULATION FREQUENCY ( $F_m$ ) \_\_\_\_\_ CONTRAST (C) AT  $F_m$  \_\_\_\_\_

RISE TIME ( $T_R$ ) \_\_\_\_\_ DRIVER:  ANALOGUE  DIGITAL

##### FREQUENCY SHIFTING

MINIMUM ACCEPTABLE DIFFRACTION EFFICIENCY \_\_\_\_\_

FREQUENCY SHIFT \_\_\_\_\_ Or ... SHIFT RANGE \_\_\_\_\_

##### DEFLECTION

MINIMUM ACCEPTABLE DIFFRACTION EFFICIENCY \_\_\_\_\_

RESOLUTION (N) / TIME BANDWIDTH PRODUCT ( $\tau\Delta F$ ) \_\_\_\_\_

TOTAL DEFLECTION ANGLE ( $\Theta_T$ ) \_\_\_\_\_

DEFLECTION MODE:  RANDOM ACCESS  LINEAR ACCESS TIME \_\_\_\_\_ SCAN FREQUENCY \_\_\_\_\_

##### MODE LOCKING

ACOUSTIC FREQUENCY (1/2 CAVITY MODULATION FREQUENCY) \_\_\_\_\_

WINDOW DESCRIPTION \_\_\_\_\_

##### Q-SWITCHING

MINIMUM ACCEPTABLE DIFFRACTION EFFICIENCY \_\_\_\_\_

OPERATING RF FREQUENCY:  24MHz  27.12MHz  50MHz  \_\_\_\_\_

OPTICAL WINDOW CONFIGURATION:  PARALLEL WITH A/R COATING  BREWSTER

COMMENTS (APPLICATION DESCRIPTION / DIAGRAM).... Continue on separate sheet if necessary.

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