



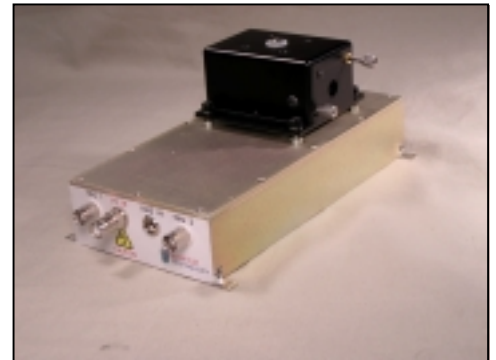
QUANTUM TECHNOLOGY, INC.

108 Commerce St., Suite 101, Lake Mary, Florida, 32746-6212, USA
FAX 407-333-9352 PHONE 407-333-9348 TOLL FREE 800-232-4291
EMAIL: staff@QuantumTech.com WEB: www.QuantumTech.com

MODEL
SUNFIRE™ Q-SW SYSTEM
HV PULSER
DATA SHEET 781

SUNFIRE™ HV PULSER

- ✓ 1-9 KV OUTPUT
- ✓ 4 NSEC RISETIMES
- ✓ Q-SWITCH APPLICATIONS
- ✓ 10 KHz AND 20 KHz REP RATES
- ✓ INTEGRATED GIMBAL MOUNT
- ✓ FLEXIBLE MOUNTING



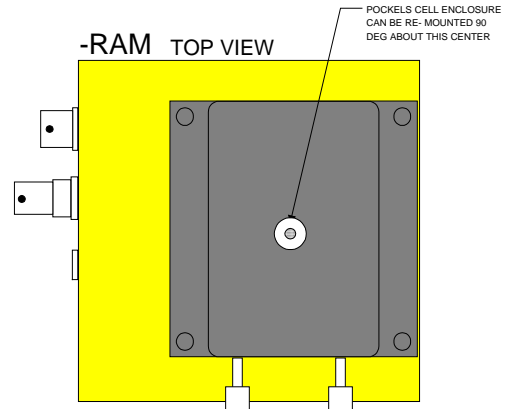
*The Model SUNFIRE™ Q-Switch system solves most Q-switching system requirements. Consisting of a High speed proprietary switching technology mated with almost any type of Dry or Wet Pockels Cells from the QS (BBO) series, QC (KD*P) cell or RT (RTP) series, this combination lives up to the most demanding expectations. Rise times of 2-3 nsec are typical although higher crystal capacitances and operating voltages will increase the rise and fall times. The unit may be powered by an external 24V supply to power the internal HV electronics or by a PS-24-6005 5 KV power supply.*

Specifications

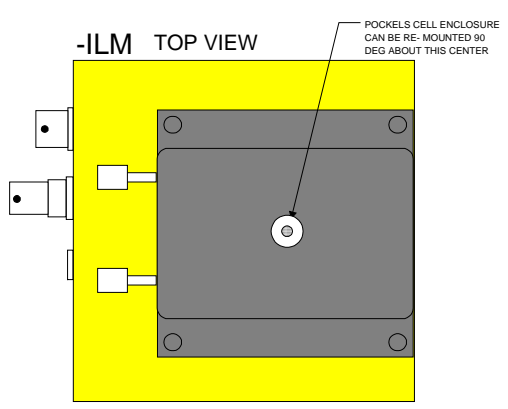
SUNFIRE™	
Output Voltage	1-5KV
Rise Time	3ns with QS-3 and RT-3, 5 ns with QC-10 typ
Fall Time	3usec typ
Rep Rate	1- 10-20KHz
Pulse Width	3us typ fixed
Jitter	<0.5ns
Ringing	<5% typ
Trigger Connector	BNC
HV input/output Connectors	SHV/SHV (without PC mount) SHV/pin terms with PC mount Mini DIN Connector
Input Power Connector	Precision Pitch & Yaw Gimbal with fixed Risers
Pockels cell mount	Max Rep Rate and Thermal Shut down
Status LEDs	

SUNFIRE™ 5 –24V internal supply and 24V power required. SUNFIRE™ 5-X24V external HV and typically powered by PS-24-6005 power supply required.

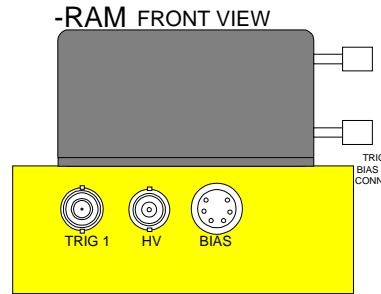
REV.	DESCRIPTION	DATE	BY



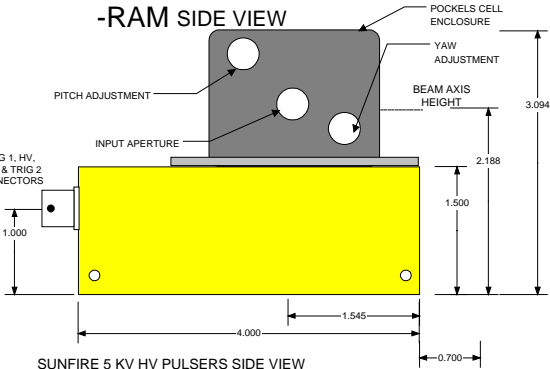
SUNFIRE 5 KV HV PULSERS TOP VIEW, RIGHT ANGLE (-RAM) MOUNT OPTION



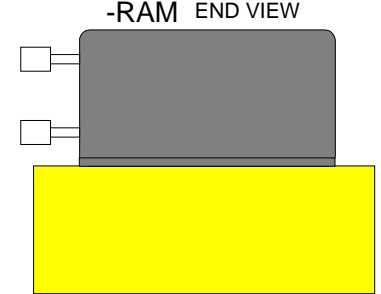
SUNFIRE HV PULSER TOP VIEW-INLINE MOUNT(-ILM) OPTION



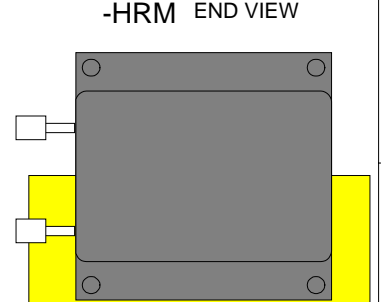
FRONT PANEL



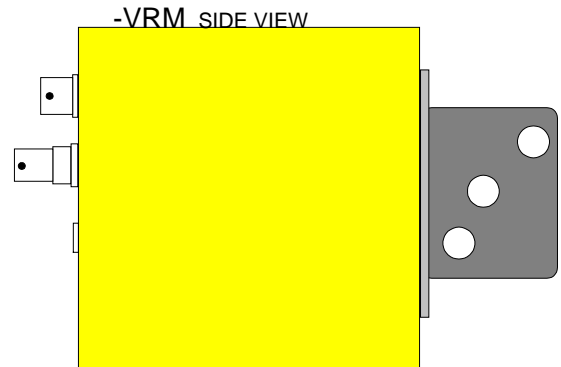
SUNFIRE 5 KV HV PULSERS SIDE VIEW



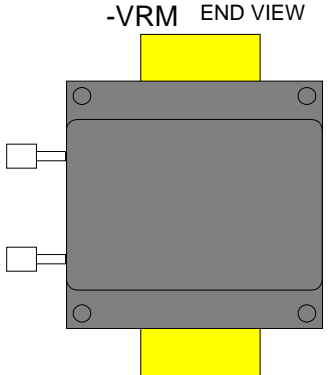
SUNFIRE HV PULSER (-RAM) MOUNT END VIEW



STARFIRE HV PULSER END VIEW OPTIONAL SIDE MOUNT(-HRM) MOUNTING CONFIG



SUNFIRE HV PULSER END VIEW OPTIONAL VERTICAL SIDE MOUNT (-VSM) MOUNTING CONFIG

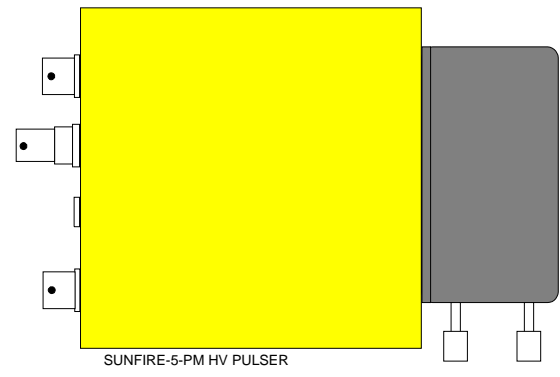


-VRM END VIEW

MAT: 6061-T6 AL FINISH: 16, GOLD IRRIDITE DEBUR .02 TYP. TOL: .XXX +/- .005 .XX +/- .01		QUANTUM TECHNOLOGY INC. 108 COMMERCE ST. LAKE MARY, FL 32746	
SUNFIRE HV PULSER, 5KV			
SIZE A	FSCM NO 58158	DWG NO SUNFIRE HV PULSER	REV
SCALE 1 : 1	DRN BY Date:	CHK BY Date:	SHEET 1 OF 4

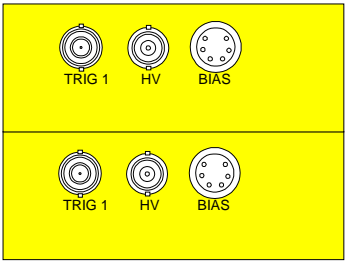
REV.	DESCRIPTION	DATE	BY

-HRM TOP VIEW



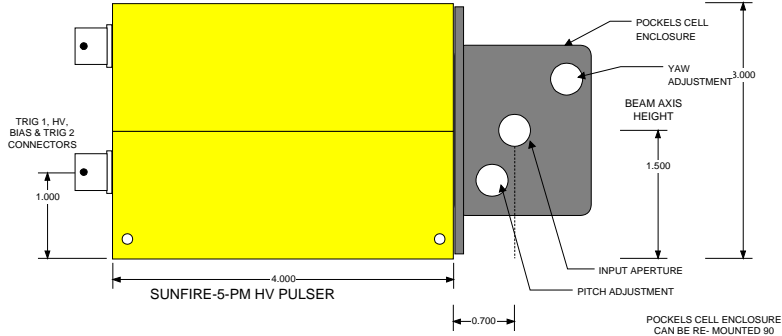
SUNFIRE-5-PM HV PULSER

-HRM FRONT VIEW



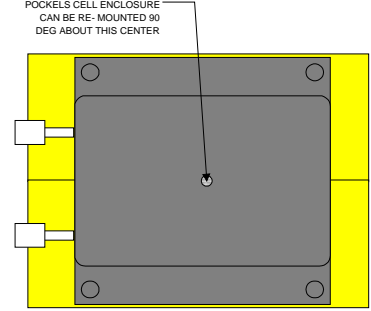
SUNFIRE-5-PM HV PULSER

-HRM SIDE VIEW



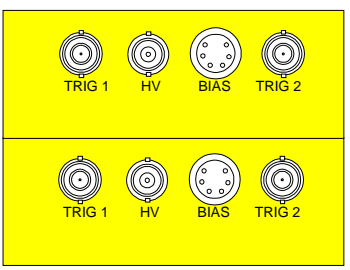
SUNFIRE-5-PM HV PULSER

-HRM END VIEW



SUNFIRE-5-PM HV PULSER END VIEW

-HRM FRONT VIEW

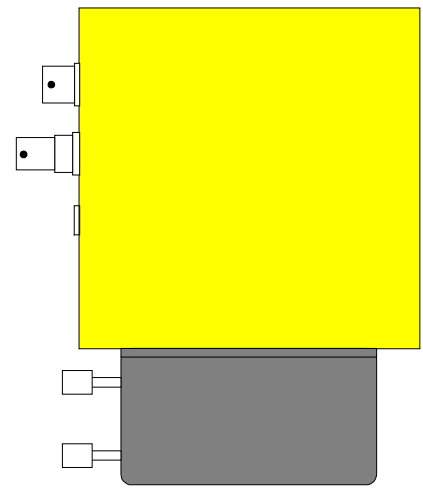


STARFIRE-5-2M HV PULSER END VIEW
PRELIMINARY

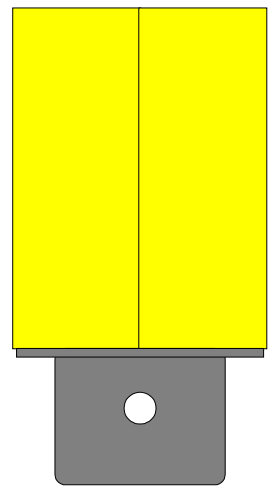
MAT: 6061-T6 AL FINISH: 16, GOLD IRRIDITE DEBUR .02 TYP. TOL: .XXX +/- .005 .XX +/- .01		QUANTUM TECHNOLOGY INC. 108 COMMERCE ST. LAKE MARY, FL 32746	
SUNFIRE 5-PM 5 HV Q-SW PULSER IN DUAL CONFIG		STARFIRE 5-2M 9KV DIFFERENTIAL	
SIZE A	FSCM NO 58158	DWG NO SUNFIRE 5-PM HV PULSER	REV
SCALE 1 : 1	DRN by Date	CHK by Date	SHEET 2 OF 4

REV.	DESCRIPTION	DATE	BY

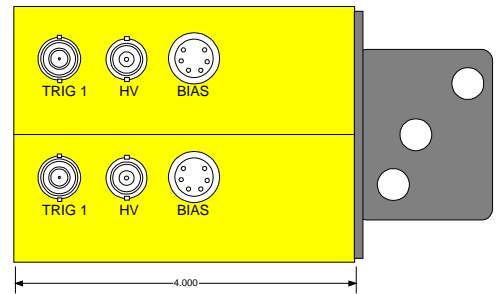
SUNFIRE-5-M HV PULSER
-HSM TOP VIEW



-HSM END VIEW

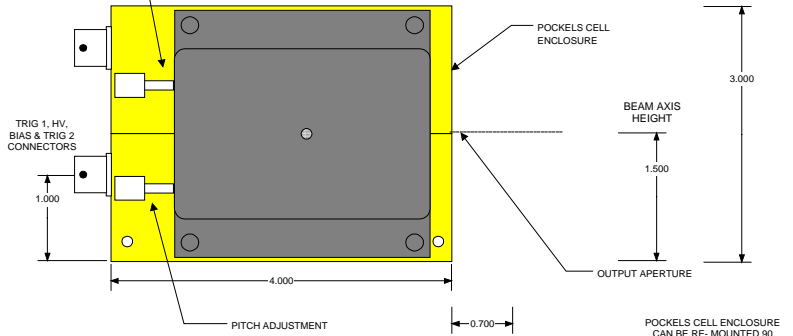


-HSM FRONT VIEW



SUNFIRE-5-PM HV PULSER

-HSM SIDE VIEW

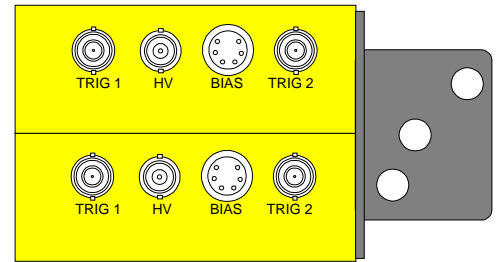


SUNFIRE-5-M HV PULSER

SUNFIRE-5-M HV PULSER

POCKELS CELL ENCLOSURE CAN BE RE-MOUNTED 90 DEG

-HSM FRONT VIEW

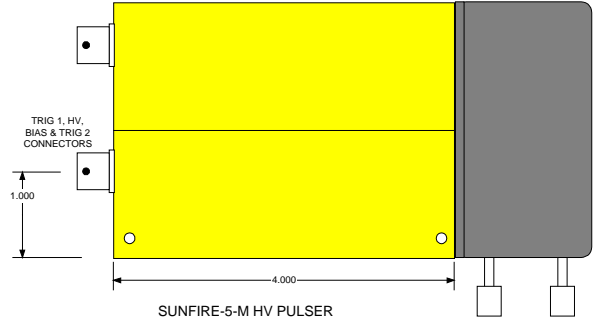


STARFIRE-5-2M HV PULSER
PRELIMINARY

MAT: 6061-T6 AL FINISH: 16, GOLD IRRIDITE DEBUR .02 TYP. TOL: .XXX +/- .005 .XX +/- .01		QUANTUM TECHNOLOGY INC. 108 COMMERCE ST, LAKE MARY, FL 32746	
SIZE A	FIG. NO. 58-158	DWG. NO. STARFIRE-5 HV PULSER	REV.
SCALE 1 : 1	DRN BY Date:	CHK BY Date:	SHEET 3 OF 4

REV.	DESCRIPTION	DATE	BY

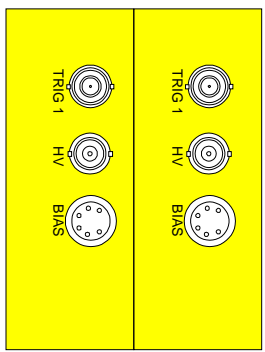
-VRM TOP VIEW



SUNFIRE-5-M HV PULSER

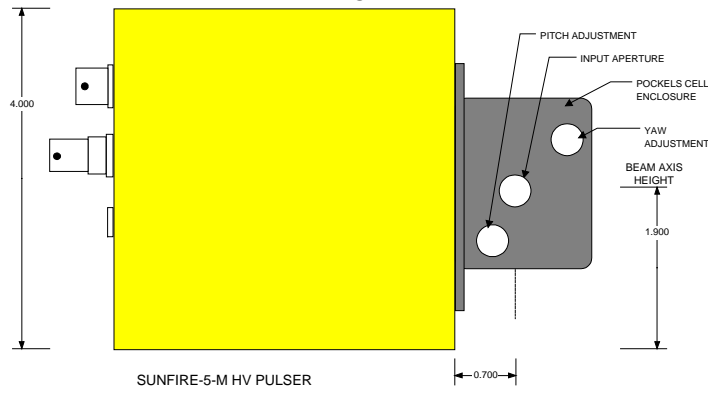
POCKELS CELL MOUNT OPTIONS:
-HRM, -VRM, HSM

-VRM FRONT VIEW



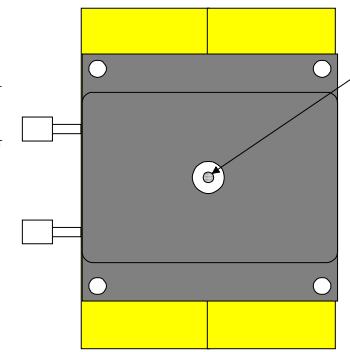
SUNFIRE-5-M HV PULSER

-VRM SIDE VIEW



SUNFIRE-5-M HV PULSER

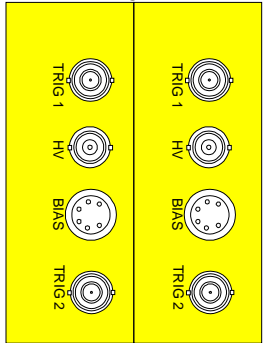
-VRM END VIEW



SUNFIRE-5-M HV PULSER END VIEW

POCKELS CELL ENCLOSURE CAN BE RE-MOUNTED 90 DEG

-VRM FRONT VIEW



STARFIRE 5-2

MAT: 6061-T6 AL FINISH: 16, GOLD IRRIDITE DEBUR .02 TYP. TOL: .XXX +/- .005 .XX +/- .01		QUANTUM TECHNOLOGY INC. 108 COMMERCE ST, LAKE MARY, FL 32746	
SUNFIRE 5-PM 5 HV Q-SW PULSER IN DUAL CONFIG		STARFIRE 5-2M 9KV DIFFERENTIAL	
SIZE A	FSCM NO 58158	DWG NO STARFIRE 5-2M HV PULSER	REV
SCALE 1 : 1	DATE	DATE	SHEET 4 OF 4