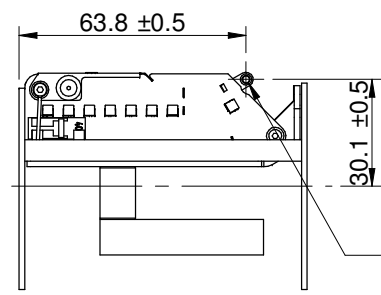
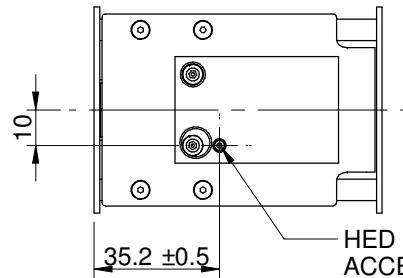
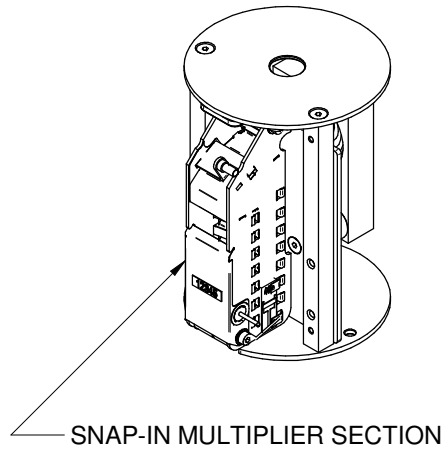


ANODE CONNECTION
GOLD Ø1.0mm PIN



-HV CONNECTION
ACCEPTS Ø1.0mm WIRE
MILL MAX #0344-1-19-15-34-27-10-0




HED CONNECTION
ACCEPTS Ø1.0mm WIRE
MILL MAX #0360-0-15-15-34-27-10-0


PRODUCTION APPROVAL		Richard Watkins		DATE	2/6/2017	ENGINEERING APPROVAL		Yair Benari		DATE	2/6/2017	8 MARTHA ST CLYDE NSW 2142, AUSTRALIA PH: +61(0)2 8876 0100 ACN NO. 078 955 521 FAX: +61(0)28876 0199 ABN: 35 078 955 521	
				TOLERANCE (UNLESS SPECIFIED)	LINEAR		MATERIAL DESCRIPTION					TITLE	
					WHOLE MILLIMETERS +0.5		MATERIAL TOLERANCE						
					ONE DECIMAL PLACE +0.2								
					TWO DECIMAL PLACES +0.1		GENERAL FINISH						
					DIAMETER								
				WHOLE MILLIMETERS +0.5		SOLID MODEL					14663 HED DETECTOR, 15 STAGE MULTIPLIER MECHANICAL SPECIFICATION		
				ONE DECIMAL PLACE +0.2									
				TWO DECIMAL PLACES +0.1		A		MACHINED FINISH 1.6/ UNLESS OTHERWISE MENTIONED			SCALE: 1:2		
B		SPECIFICATIONS ADDED TO SHEET 2		1211	PR	1-6-2017	DRAWN		DATE	SHEET	PRIOR DRAWING REF.	DRAWING No.	
REV		DESCRIPTION		ECR #	BY	DATE	MJAR		03/05/2017	1 OF 2	14DM286E	MS14663	
												REVISION	
												B	

ALL DIMENSIONS ARE IN MILLIMETERS

DO NOT SCALE

14663 Multiplier Assembly Specifications

Multiplier part number	14663
Number of dynodes	15
Maximum initial voltage for gain of 10^5 (new multiplier)	1250 V
Maximum multiplier -HV voltage (at end of life)	3500 V
 Note: Operating a new detector at maximum voltage may result in damage to the detector	
Internal multiplier resistance -HV to Ground (nominal)	22.8 M Ω
Maximum dark current: -HV @ -2500 V, HED @ 0 V	<1 pA
Maximum operating pressure	10 ⁻⁴ Torr
Long/short term storage requirements	Protect from dust and humidity
Maximum power supply current	180 μ A at 3500V
Ambient temperature range for normal operation	+5 $^{\circ}$ C to +40 $^{\circ}$ C
Maximum storage temperature	70 $^{\circ}$ C

PRODUCTION APPROVAL		Richard Watkins		DATE	2/6/2017	ENGINEERING APPROVAL		Yair Benari		DATE	2/6/2017	 8 MARTHA ST CLYDE NSW 2142, AUSTRALIA PH: +61(0)2 8876 0100 ACN NO. 078 955 521 FAX: +61(0)28876 0199 ABN: 35 078 955 521
B		SPECIFICATIONS ADDED TO SHEET 2		1211	PR	1-6-2017						
REV		DESCRIPTION		ECR #	BY	DATE		TOLERANCE (UNLESS SPECIFIED) LINEAR WHOLE MILLIMETERS ± 0.5 ONE DECIMAL PLACE ± 0.2 TWO DECIMAL PLACES ± 0.1 DIAMETER WHOLE MILLIMETRES ± 0.5 ONE DECIMAL PLACE ± 0.2 TWO DECIMAL PLACES ± 0.1 ANGULAR WHOLE DEGREES $\pm 1^{\circ}$ ONE DECIMAL PLACE $\pm 0.5^{\circ}$		MATERIAL DESCRIPTION MATERIAL TOLERANCE GENERAL FINISH SOLID MODEL A MACHINED FINISH $1.6/\sqrt{\quad}$ UNLESS OTHERWISE MENTIONED		TITLE 14663 HED DETECTOR, 15 STAGE MULTIPLIER MECHANICAL SPECIFICATION
								DRAWN MJAR DATE 03/05/2017 SHEET 2 OF 2 PRIOR DRAWING REF. 14DM286E		SCALE: 1:1	DRAWING No. MS14663	REVISION B
ALL DIMENSIONS ARE IN MILLIMETERS										DO NOT SCALE		

