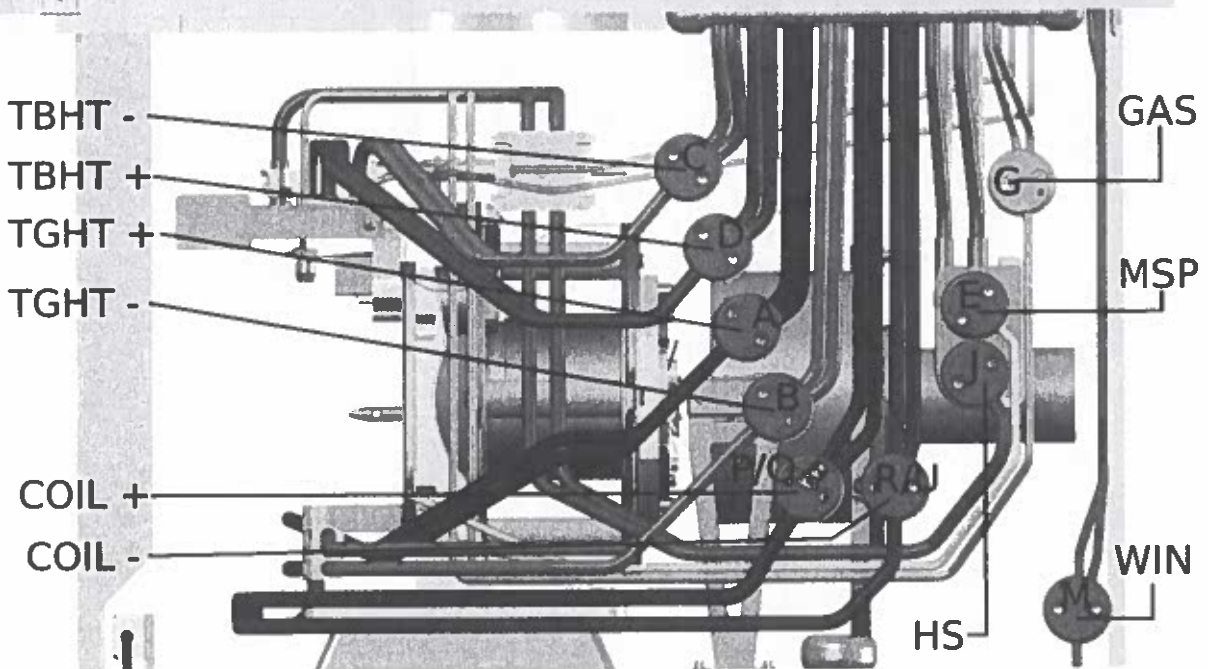


Helium pressure test AT 70 PSI

TM3 leak check document *TM3 with new source tray at TCS*

Date: *2024-04-25* by *David Wang*

FEEDTHROUGH	FUNCTION	LEAK RATE [atm*cc/s]	Notes
<i>--Leak detector</i>	Background	0.0×10^{-9}	<i>Base pressure 0.0×10^{-4} torr</i>
A	TGHT +	0.0×10^{-9}	<i>3 minutes</i>
B	TGHT -	0.0×10^{-9}	<i>"</i>
C	TBHT -	0.0×10^{-9}	<i>"</i>
D	TBHT +	0.0×10^{-9}	<i>"</i>
P/Q	COIL +	0.0×10^{-9}	<i>"</i>
R/U	COIL -	0.0×10^{-9}	<i>"</i>
E	MSP	0.0×10^{-9}	<i>"</i>
G	gas	0.0×10^{-9} (both)	<i>" two lines separated</i>
H/T	multipins	---	---
Y (W?)	Einzel lens	---	---
J	Heat shield	0.0×10^{-9}	<i>"</i>
I	Extraction electrode	---	---
M	Window	0.0×10^{-9} (both)	<i>" 2 lines separated</i>



TM3 with new source Tray Installed. 2024-04-25 by David Wang
 AT TCS under good vacuum TCS: IG1 1.3x10⁻⁶ Torr.
 Sheet 1

Target Module Electrical Check with no target attached for Modules 2/3/4

Resistance check all values in ohms, all values should be infinite.

	A (Target)	B (Target)	C (Target)	D (Target)	Q (Coil)	R (Coil)	T(60kV Common)	X (55 Pin con)	I (EE)	Y (Einzel Lens)	Chassis
A (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
B (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
C (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
D (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
Q (Coil)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
R (Coil)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
T(60kV Common)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
X (55 Pin con)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
I (EE)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
Y (Einzel Lens)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
Chassis	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL

Meggering check all circuits checked at 500V. All values should be infinite. Any measured values are in ohms.

	A (Target)	B (Target)	C (Target)	D (Target)	Q (Coil)	R (Coil)	T(60kV Common)	X (55 Pin con)	I (EE)	Y (Einzel Lens)	Chassis
A (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
B (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
C (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
D (Target)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
Q (Coil)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
R (Coil)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
T(60kV Common)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
X (55 Pin con)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
I (EE)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
Y (Einzel Lens)	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL
Chassis	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL	OL

Module #	2	3	4	Date:	2024-04-25
Location:	SHC	TCS	Other:	Signatures:	Wang

All 12 pins on flange A and B are measured @ 250V. They are OL to each other and to 60kV bias