TO: Lyncean Technologies, Inc.

## **INSPECTION SHEET**

TR000033 Canon Klystron E3730A Inspection Sheet SN 20L106

## HIGH POWER PULSE KLYSTRON E3730A S/N 20L106

CANON ELECTRON TUBES & DEVICES CO., LTD.

		<del></del>			<del></del>								PA	GE 1/2
TEST CLAS	SSIFICATI	ON AQL	<u>n1 d</u>	11 n1+n2	d1+d2 JUDGE					APPLIED S	PECIFICATION	PRODUCT	SPECIFICAT	ION
APPEARANCE PRODUCTION DESIGN						IN	<b>ISPECTIO</b>	ON SHEE	SHEET		SUPPLY QUANTITY		F INSP.	20-Nov-2020
			+						CHIEF OF INSPECTIO	CHIEF OF INSPECTION SECTION		y. Tanak		
TEST CO	NOITION	ELECTE	ROM	AGNET V	T-68922						-	<del></del>		
		STATIC				DYNAMIC	DYNAMIC							
ITEM		VACUUM CHECK	1	HEATER CURREN		OUTPUT POWER	BEAM VOLTAGE	BEAM CURRENT	DRIVE POWER	GAIN	EFFICIENCY	PERVEANCE	X-ray Leakage	JUDGE
SYMB	BOL	lion		If	ik	ро	еру	ik	pd	Gp	η	G		
UNIT		[		[A]	[A]	[MW]	[kV]	[A]	[W]	[dB]	[%]	[μ A/V <sup>1.5</sup> ]	[ µ Sv/h]	]
COND	DITION	No operatir	ng	Ef=14.5[V	[V] Ef=14.5[V]				Ef=14.5[V]					
	voltage (Ef $\leq 20[V]$ ) epy=310[kV] fo = 2856 [MHz], tp(rf) = 4.0 [ $\mu$ s], tp(epy) = 6.2 [ $\mu$ s], fp = 50 [pps]													
No.		tp(epy)=6.2[ μ s] Isol = (18.8, 30.2, 14.6, 17.1, 12.6, 4.8 ) [A] fp=50[pps]												
				٠										
20L1	106	0.01		16.5	367	50.8	316	379	209	53.8	42.4	2.14	9.9	
									!					
													-	
MI	IN.			-	345.2	50	_	_	_	50	42	1.95	-	INSPECTOR
SPEC PA	AR	<u> </u>	1		_	-	-	-	_	-	_	2.1	_	M.Shibazalci
M/	AX.	4.0		20	379.8	-	320	-	500	-	-	2.2	20	IN SWIDWAYC

TYPE E3730A series

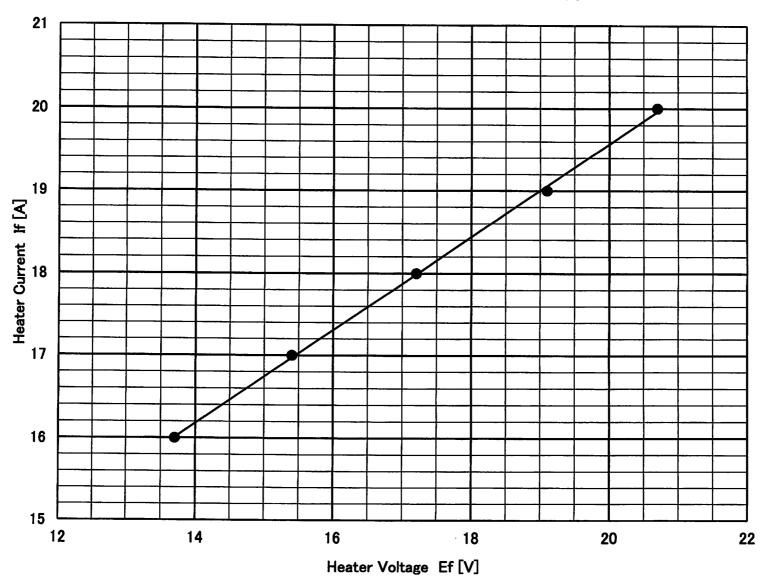
CANON ELECTRON TUBES & DEVICES CO., LTD.

	··	<del></del>									PAGE 2/2	
TEST C	LASSIFICATIO	N AQL	n1 d	1 n1+r	2 d1+	d2 JUDGE	_		APPLIED SPECIFICATION	PRODUCT SPECIFICAT	ATION	
APPEA	RANCE							INSPECTION SHEET	SUPPLY QUANTITY	1 DATE OF INSP.	20-Nov-2020	
PRODUCTION DESIGN			igoplus		_		TYPE	HIGH POWER PULSE KLYSTRON E3730A	CHIEF OF INSPECTION SECTION	4. Tano	ka	
TEST	CONDITION			<u> </u>			-					
ITE SYI UNI	MBOL	HYDROSTATIC PRESSURE - -				DUTLINE MENSION		<del>74 '</del>		JUDGE		
CO	CONDITION P = 0.98 [MPa] (10 [kgf/cm <sup>2</sup> ]) t = 15 min.				_				-			
No.					_							
20	L106		ОК				OK				ОК	
						<del></del>						
	MIN.	No v	isible	leaks			detectable				INSPECTOR	
SPEC.	PAR MAX.	and r	no dar	mages			ge in the ion p indicator				M.Shibazalci	

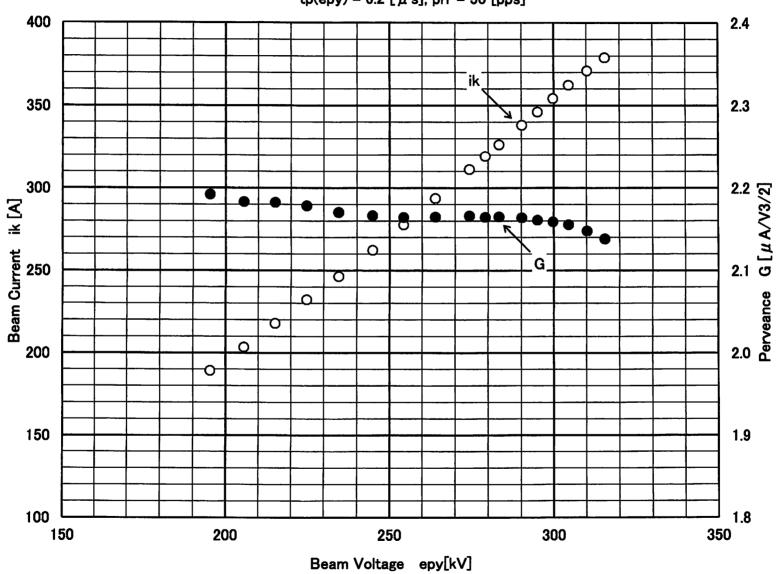
TYPE E3730A series

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## E3730A S/N 20L106 HEATER CHARACTERISTICS

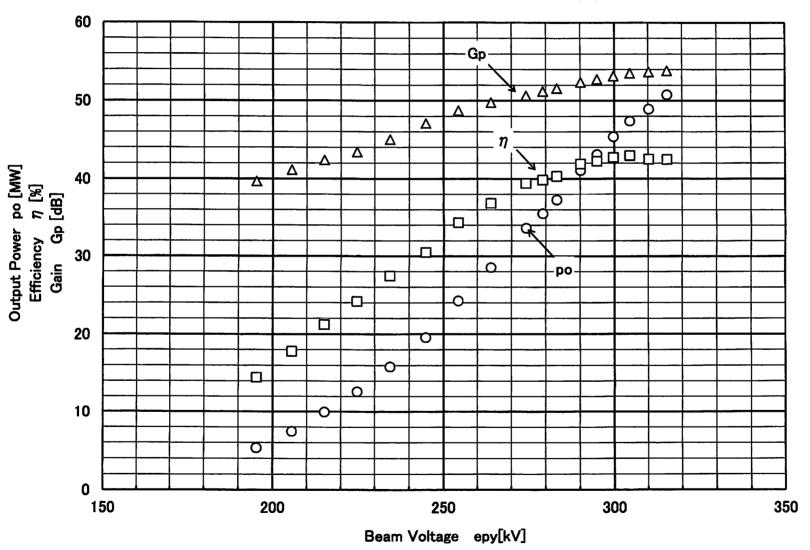


## E3730A S/N 20L106 epy-ik CHARACTERISTICS tp(epy) = 6.2 [ $\mu$ s], prr = 50 [pps]



### E3730A S/N 20L106 SATURATED OUTPUT CHARACTERISTICS (1)

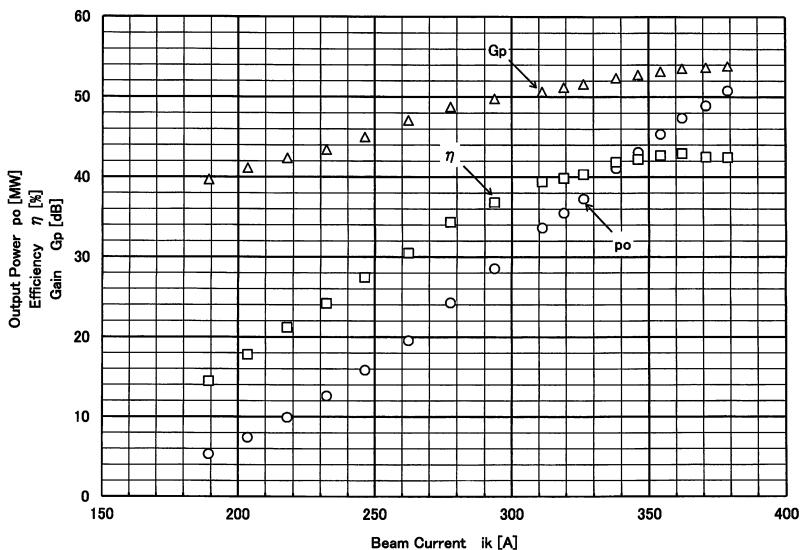
 $tp(rf) = 4.0 [\mu s], prr = 50 [pps],$ Isol = (18.8, 30.2, 14.6, 17.1, 12.6, 4.8) [A]



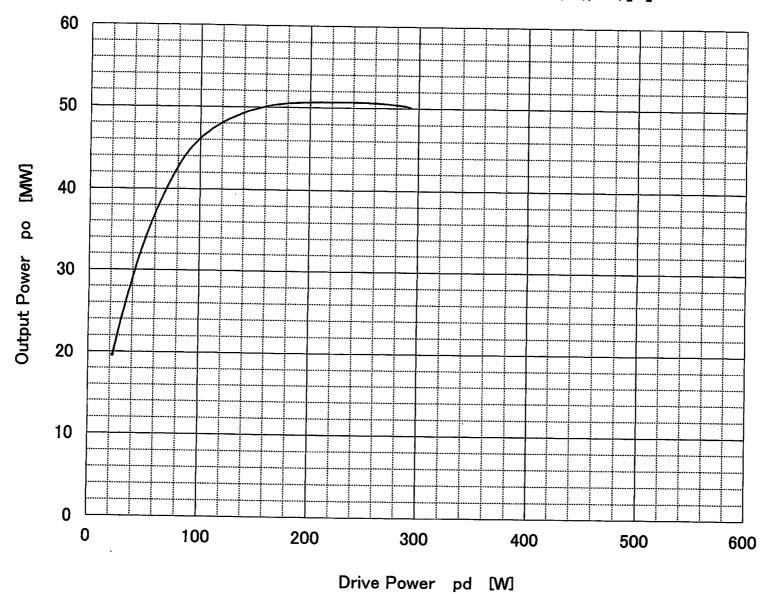
### E3730A S/N 20L106 SATURATED OUTPUT CHARACTERISTICS (2)

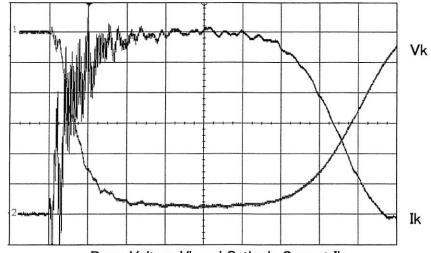
 $tp(rf) = 4.0 [\mu s], prr = 50 [pps],$ 

Isol = ( 18.8 , 30.2 , 14.6 , 17.1 , 12.6 , 4.8 ) [A]

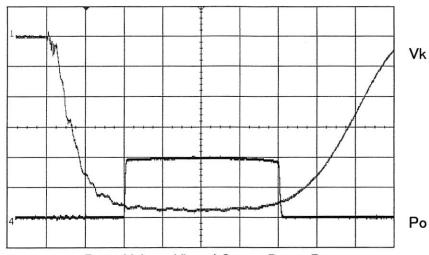


# E3730A S/N 206/06 POWER TRANSFER CHARACTERISTICS $tp(rf) = 4.0 \ [\mu s]$ , $prr = 50 \ [pps]$ , $epy = 3/6 \ [kV]$ $ik = 379 \ [A]$ , Isol = (18.8, 30.2, 14.6, 17.1, 12.6, 4.8)[A]

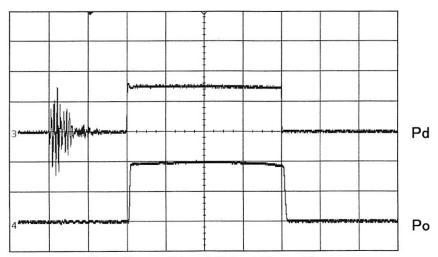




Beam Voltage Vk and Cathode Current Ik (X-axis:1[ $\mu$  s/div.], epy= 316 [kV], ik= 379 [A])



Beam Voltage Vk and Output Power Po (X-axis:1[ $\mu$ s/div.], epy= 316 [kV], po= 50.8 [MW])



Drive Power Pd and Output Power Po (X-axis:1[ $\mu$ s/div.], pd = 209 [W], po= 50.8 [MW])