TO : Lyncean Technologies , Inc.

INSPECTION SHEET

HIGH POWER PULSE KLYSTRON

E3730A S/N 20F103

CANON ELECTRON TUBES & DEVICES CO., LTD.

TEST CLASSIFICATION	AQL	n1	d1	n1+n2	d1+d2	JUDGE
APPEARANCE						
PRODUCTION						
DESIGN						

INSPECTION SHEET

TYPE HIGH POWER PULSE KLYSTRON E3730A

APPLIED SPECIFICATION	PRODUCT SPECIFICATION	
SUPPLY QUANTITY	1 DATE OF INSP.	24-Jun-2020
CHIEF OF INSPECTION SECTION	Y. Tanaka	

TEST CONDITION ELECTROMAGNET VT-68922

ITEM	STATIC			DYNAMIC								JUDGE
	VACUUM CHECK	HEATER CURRENT	BEAM CURRENT	OUTPUT POWER	BEAM VOLTAGE	BEAM CURRENT	DRIVE POWER	GAIN	EFFICIENCY	PERVEANCE	X-ray Leakage	
SYMBOL	Iion	If	ik	po	epy	ik	pd	Gp	η	G		
UNIT	[μA]	[A]	[A]	[MW]	[kV]	[A]	[W]	[dB]	[%]	[μA/V$^{1.5}$]	[μSv/h]	
CONDITION	No operating voltage	Ef=18.9[V] (Ef ≦20[V])	Ef=18.9[V] epy=310[kV] tp(epy)=6.2[μs] fp=50[pps]	Ef=18.9[V] fo = 2856 [MHz] , tp(rf) = 4.0 [μs] , tp(epy) = 6.2 [μs] , fp = 50 [pps] Isol = (18.8, 30.2, 14.6, 17.1, 12.6, 4.8) [A]								
No.												
20F103	0.01	18.5	347	50.7	320	364	360	51.5	43.6	2.01	8.2	
SPEC MIN.	-	-	345.2	50	-	-	-	50	42	1.95	-	INSPECTOR
SPEC PAR	-	-	-	-	-	-	-	-	-	2.1	-	M. Shibazaki
SPEC MAX.	4.0	20	379.8	-	320	-	500	-	-	2.2	20	

TYPE E3730A series

CANON ELECTRON TUBES & DEVICES CO., LTD.

TEST CLASSIFICATION	AQL	n1	d1	n1+n2	d1+d2	JUDGE
APPEARANCE						
PRODUCTION						
DESIGN						

INSPECTION SHEET

TYPE HIGH POWER PULSE KLYSTRON
E3730A

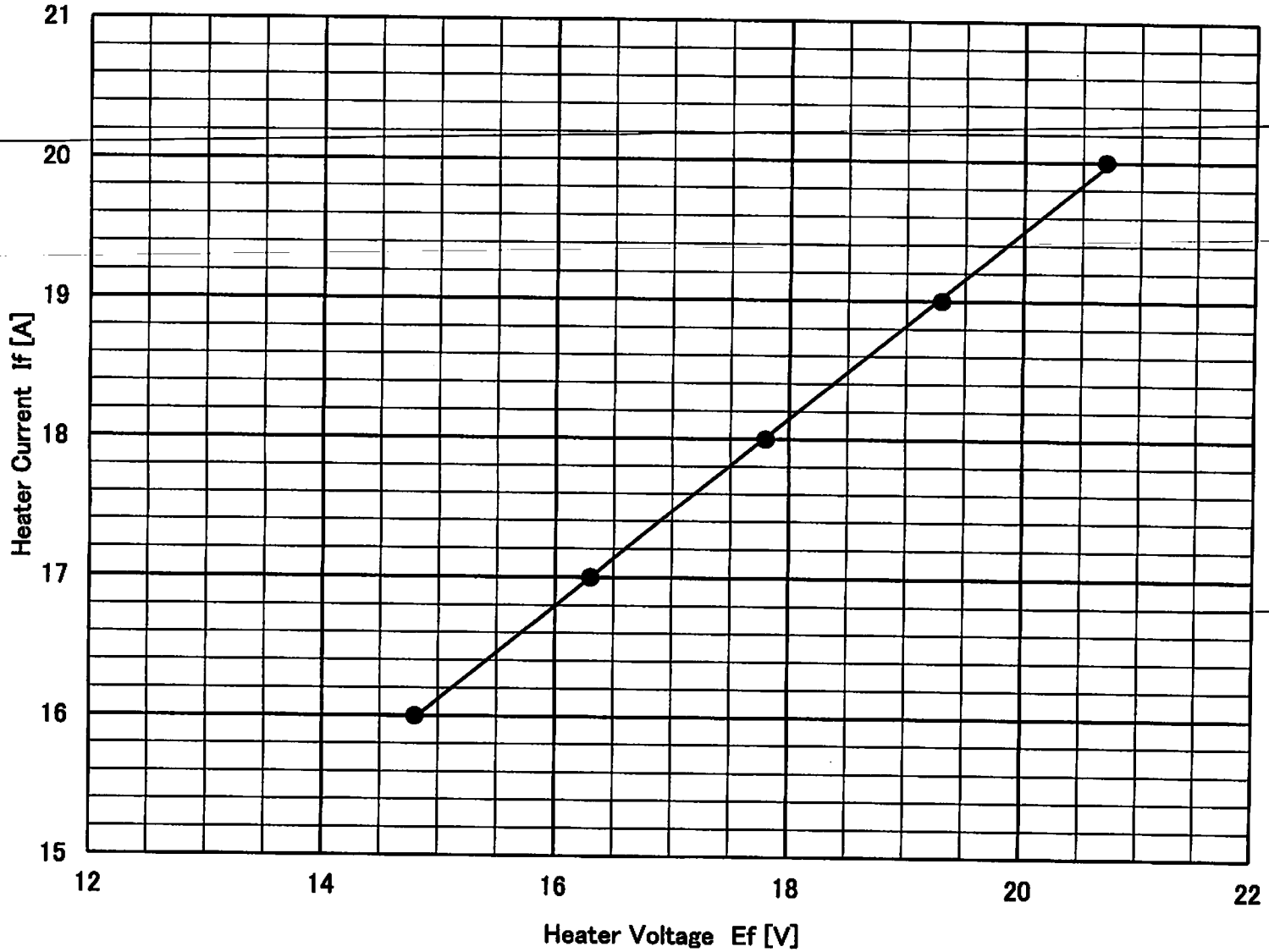
APPLIED SPECIFICATION	PRODUCT SPECIFICATION
SUPPLY QUANTITY	1
DATE OF INSP.	24-Jun-2020
CHIEF OF INSPECTION SECTION	Y. Tanaka

TEST CONDITION

ITEM / SYMBOL / UNIT	HYDROSTATIC PRESSURE - -	OUTLINE DIMENSION		JUDGE
CONDITION	P = 0.98 [MPa] (10 [kgf/cm^2]) t = 15 min.	-		
No.				
20F103	OK	OK		OK
SPEC. MIN.	No visible leaks	No detectable		INSPECTOR
SPEC. PAR	and no damages	change in the ion		M.Shibazaki
SPEC. MAX.		pump indicator		

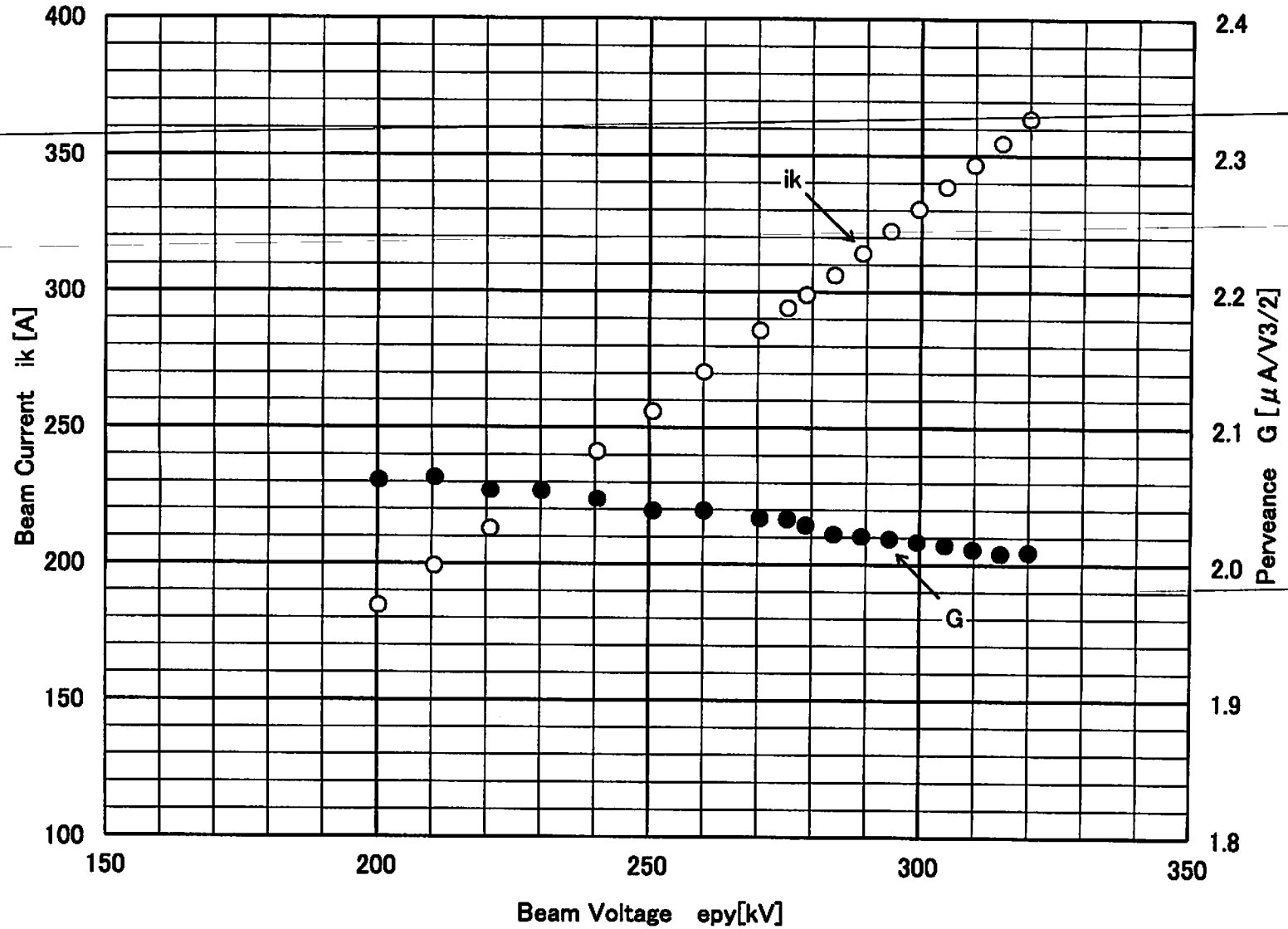
2/8

E3730A S/N 20F103 HEATER CHARACTERISTICS



E3730A S/N 20F103 epy-ik CHARACTERISTICS

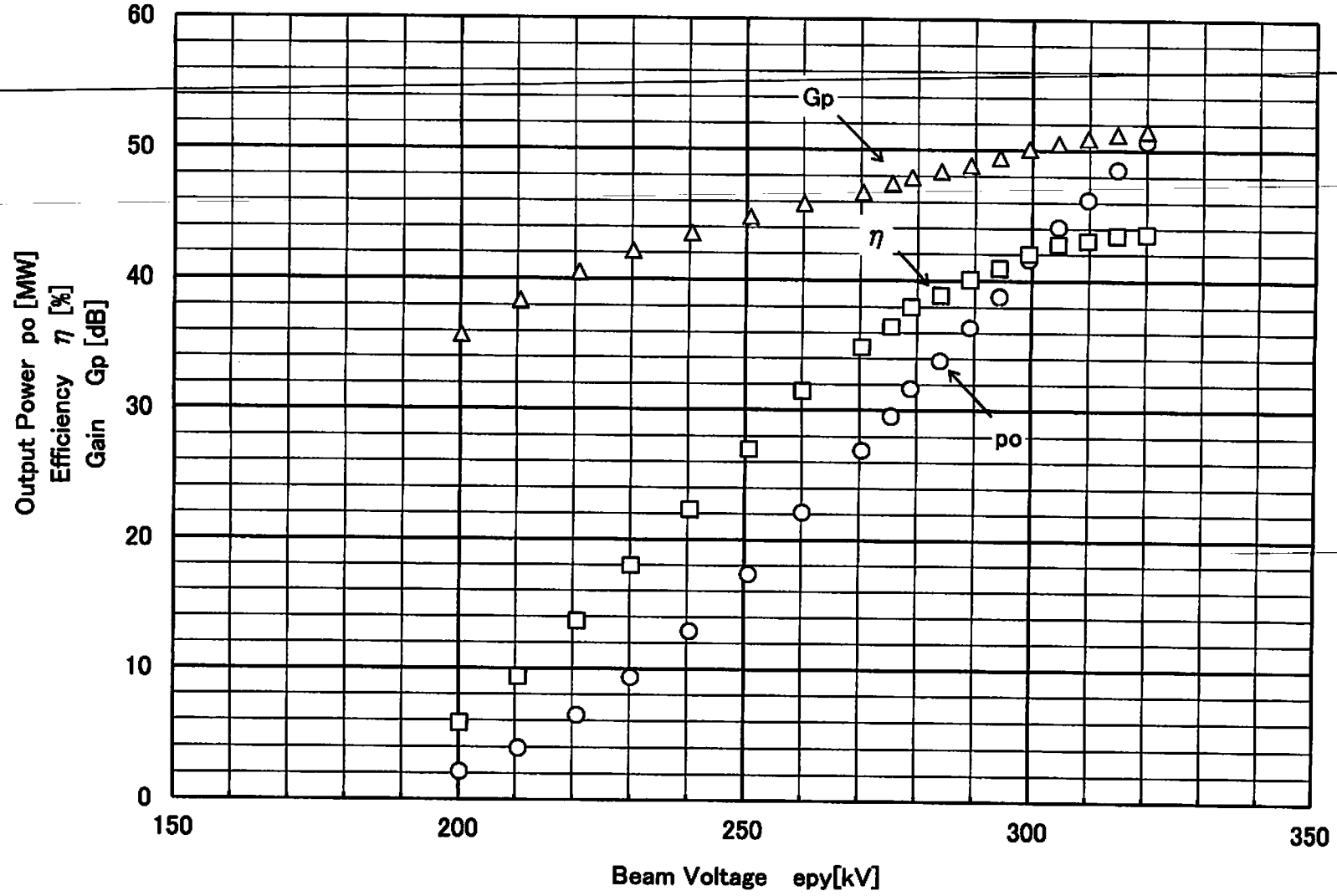
tp(epy) = 6.2 [μ s], prr = 50 [pps]



E3730A S/N 20F103 SATURATED OUTPUT CHARACTERISTICS (1)

tp(rf) = 4.0 [μ s], prr = 50 [pps],

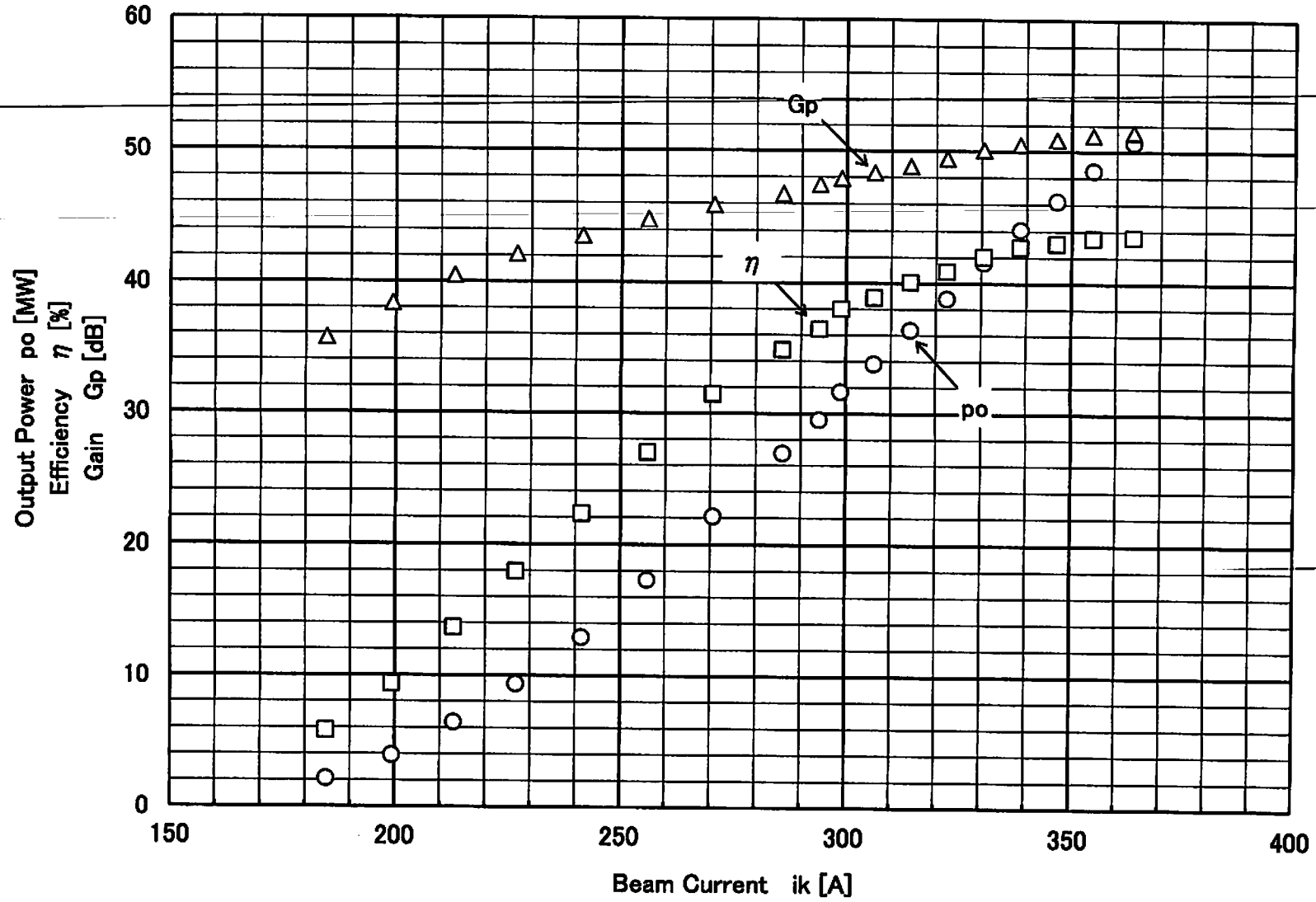
Isol = (18.8 , 30.2 , 14.6 , 17.1 , 12.6 , 4.8) [A]



E3730A S/N 20F103 SATURATED OUTPUT CHARACTERISTICS (2)

tp(rf) = 4.0 [μ s], prr = 50 [pps],

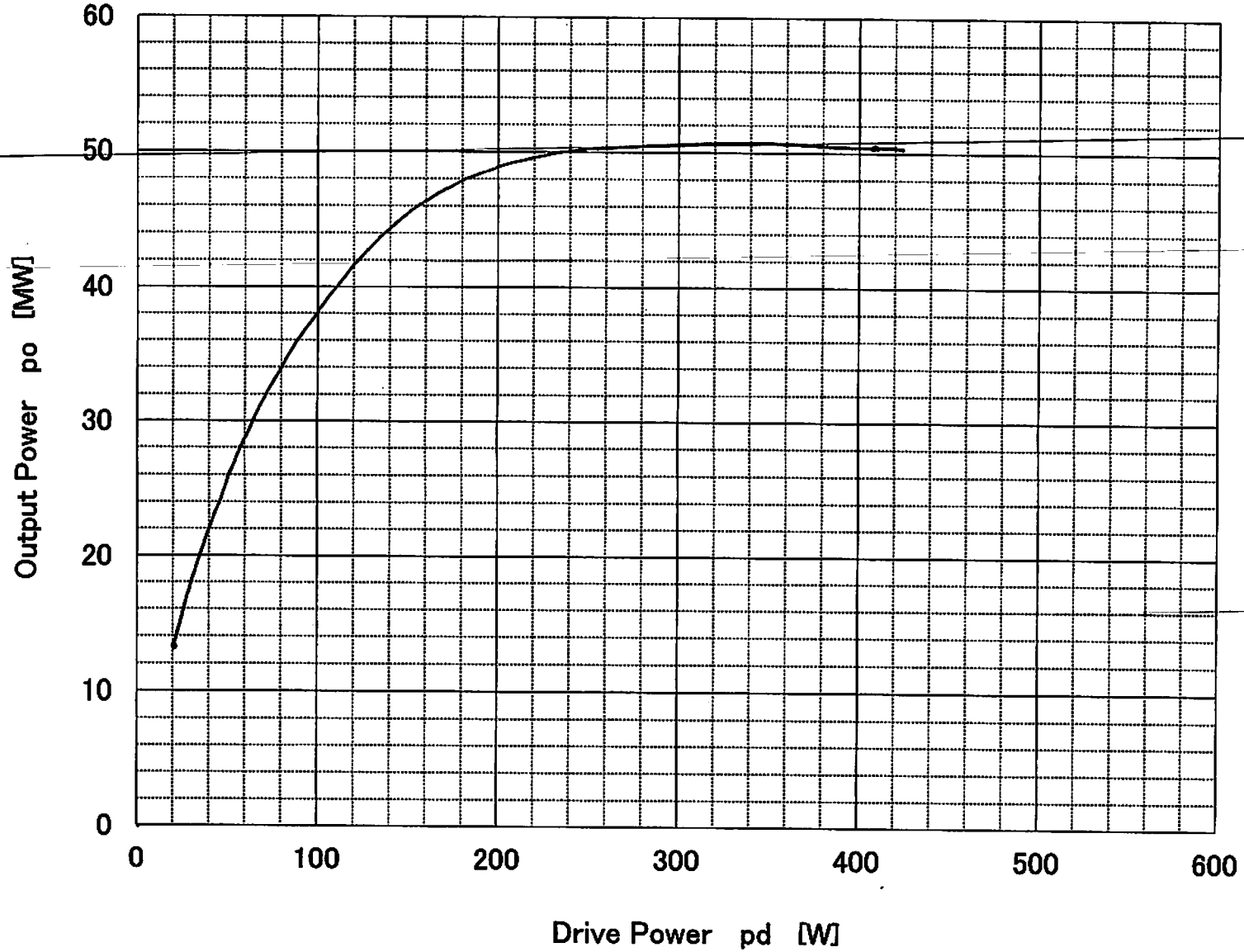
Isol = (18.8 , 30.2 , 14.6 , 17.1 , 12.6 , 4.8) [A]

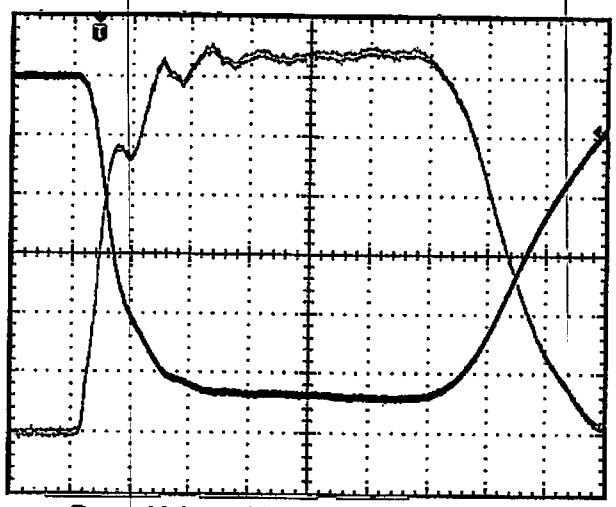


E3730A S/N 20F103 POWER TRANSFER CHARACTERISTICS

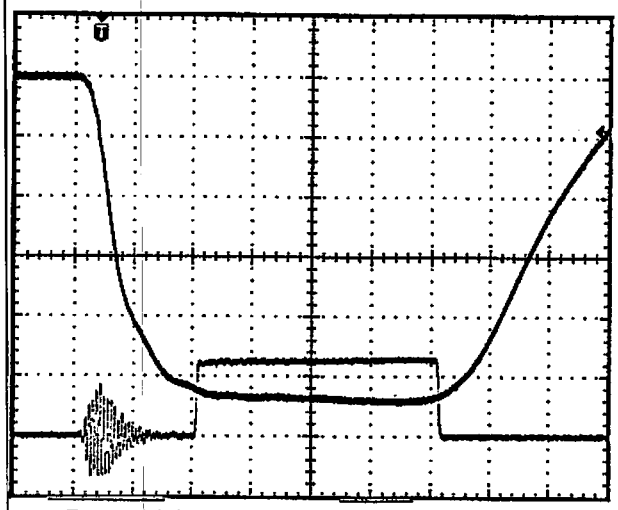
tp(rf) = 4.0 [μs] , prr = 50 [pps],epy= 320 [kV] , ik= 364 [A],

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

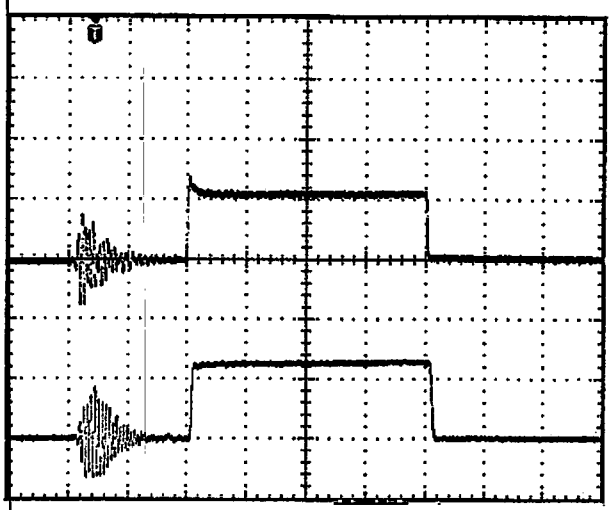




Beam Voltage Vk and Cathode Current Ik
(X-axis: 1[μs/div.], epy= 320 [kV], ik= 364 [A])



Beam Voltage Vk and Output Power Po
(X-axis: 1[μs/div.], epy= 360 [kV], po= 50.7 [MW])



Drive Power Pd and Output Power Po
(X-axis: 1[μs/div.], pd = 360 [W], po= 50.7 [MW])