

65/4



EIM 13

TRANSMITTING PENTODES
SENDEPENTODEN
PENTODES D'ÉMISSION

EITEL-McCULLOUGH, INC.

SAN CARLOS, CALIFORNIA

301 INDUSTRIAL WAY • SAN CARLOS, CALIFORNIA

EITEL-McCULLOUGH, S.A.

RUE DU JEU-DE-L'ARC No. 15
GENEVA, SWITZERLAND

CABLE ADDRESS: EIMACTUBES, GENEVA
TÉL. 35 89 30

Class C telegraphy or FM telephony
 Classe C HF télégraphie ou FM
 Klasse C HF Telegraphie oder FM

Max. Ratings - Valeurs max. - Grenzwerte

f	=	110	Mc
Va	=	4000	V
Vg2	=	600	V
Ia	=	500	mA
Wa	=	500	W
Wg3	=	10	W
Wg2	=	30	W
Wg1	=	10	W

Typical Operation - Service typique - Betriebsdaten

f	=	<75	<75	<75	Mc
Va	=	2,5	3	4	V
Vg3	=	0	0	0	V
Vg2	=	500	500	500	V
Vg1	=	-210	-210	-210	V
Vg1p	=	310	310	310	V
Ia	=	390	390	390	mA
Ig2	=	60	60	60	mA
Ig1	=	28	28	28	mA
Wg1	=	8,7	8,7	8,7	W
Wia	=	975	1170	1560	W
Wo	=	728	895	1195	W

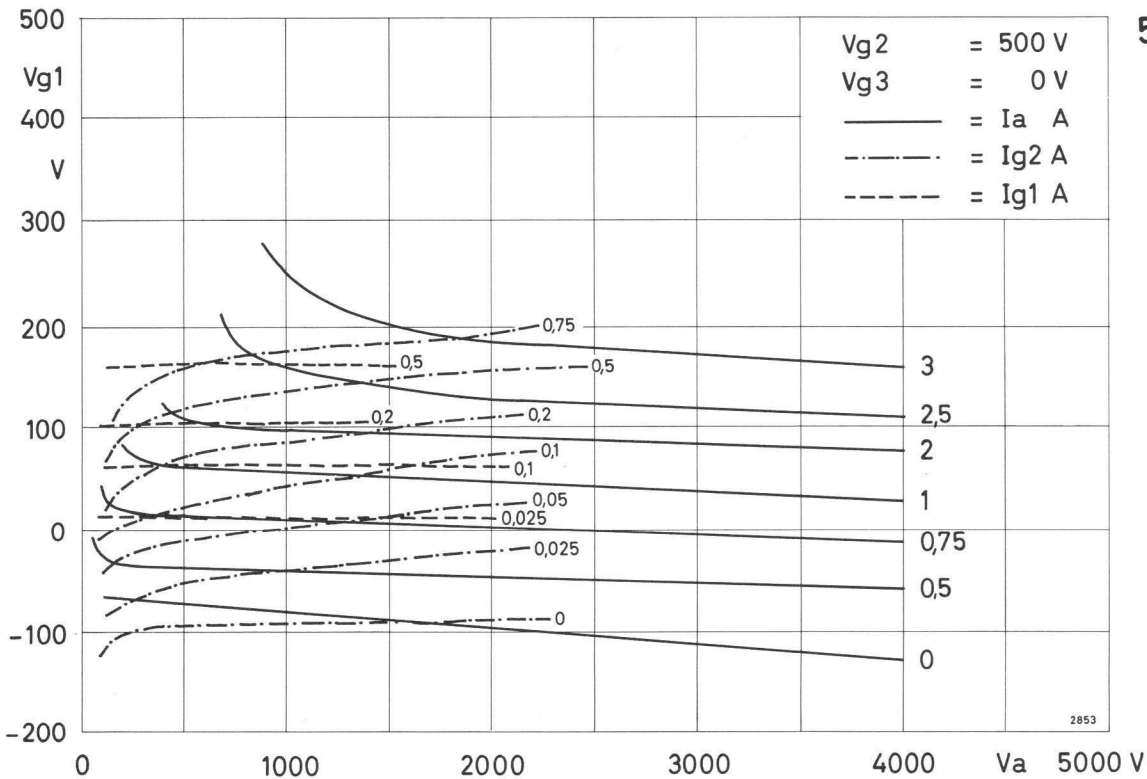
Class ABL Linear Amplifier Single Side Band
 Classe ABL Ampli HF linéaire bande latérale unique
 Klasse ABL Einseitenband HF Verstärker

Max. Ratings - Valeurs max. - Grenzwerte
 Single-tone 1 fréquence Einzelton

f	=	110	Mc
Va	=	4000	V
Vg2	=	800	V
Ia	=	500	mA
Wa	=	500	W
Wg3	=	10	W
Wg2	=	30	W
Wg1	=	10	W

Typical Operation - Service typique - Betriebsdaten

f	=	<30	<30	<30	Mc
Va	=	2	3	4	KV
Vg3	=	0	0	0	V
Vg2	=	750	750	750	V
Vg1	=	-99	-112	-121	V
Ia0	=	150	100	80	mA
Ia.1	=	338	320	322	mA
Ia.2	=	252	221	212	mA
Ig2.1	=	31	27	24	mA
Ig2.2	=	15	12	10	mA
Ra	=	3600	5800	7700	Ω
Wo.1	=	395	612	832	W

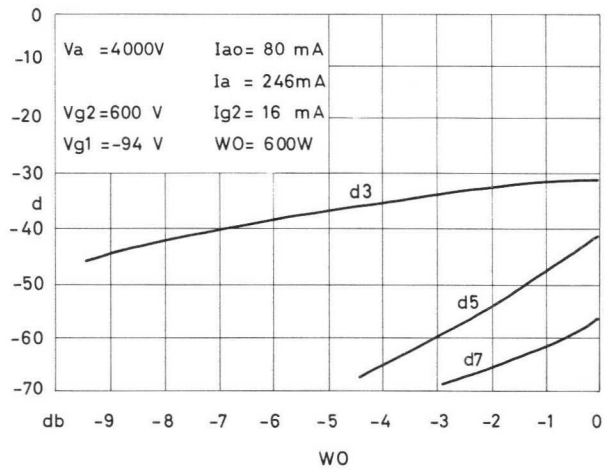
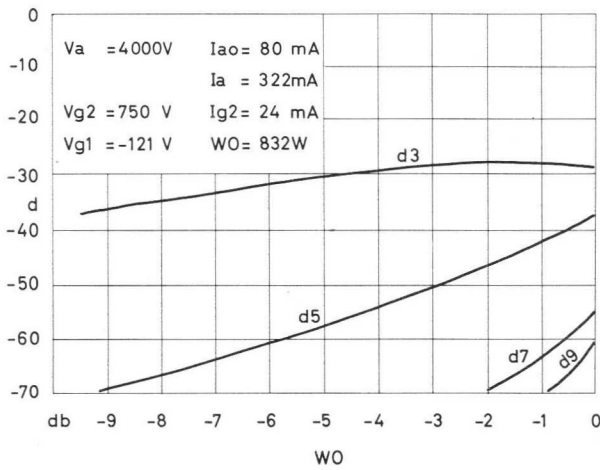
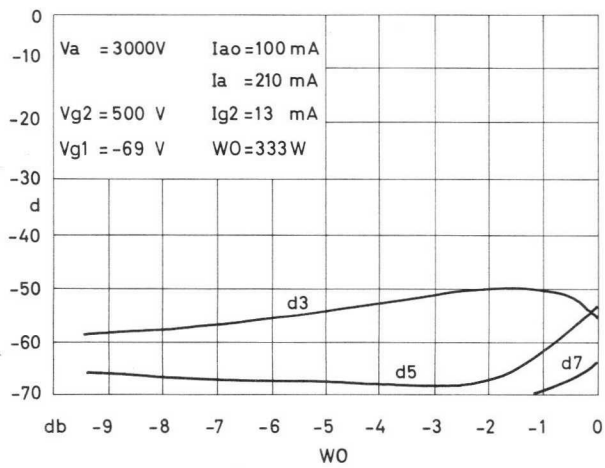
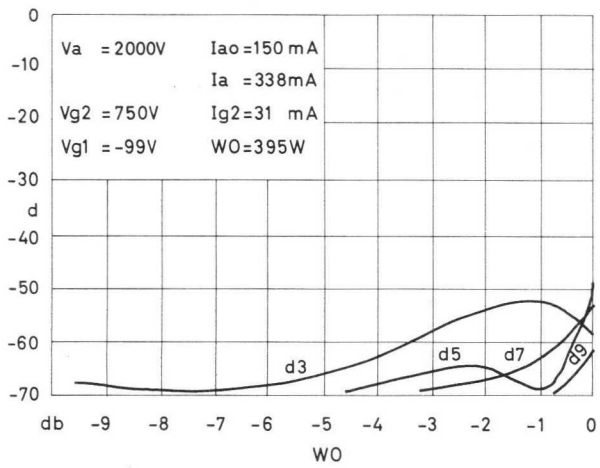
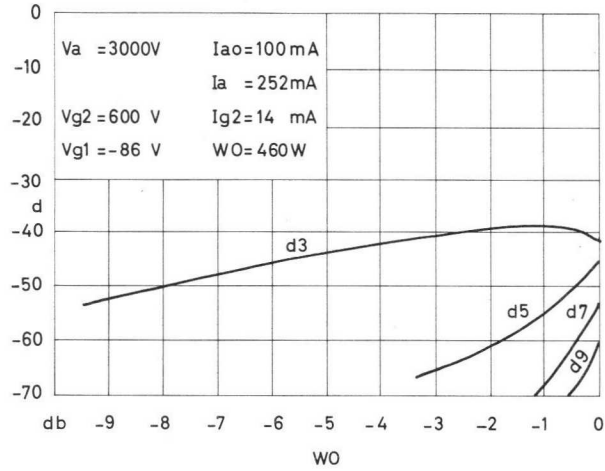
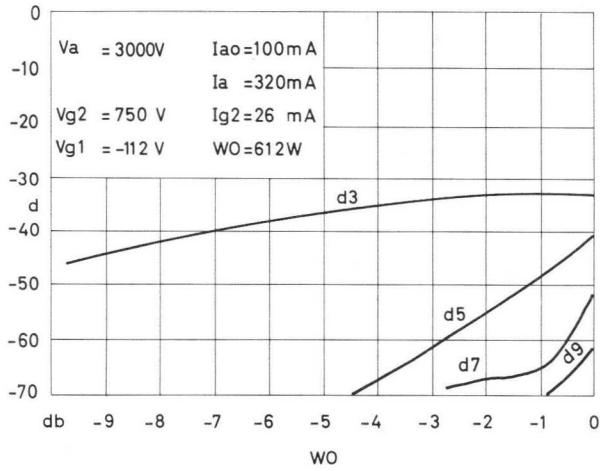


5-500 A



INTERMODULATION

5-500 A



5CX1500A



The EIMAC 5CX1500A is a metal-ceramic pentode designed primarily for Class ABL linear amplifier service, where it is capable of more than 1700 watts useful power output. High gain and low distortion characteristics make the 5CX1500A especially suitable for single-sideband applications. The tube is also recommended for use as a Class C Radio Frequency amplifier.

La pentode EIMAC 5CX1500A est un tube céramique-métal conçu en premier lieu pour amplification linéaire en classe ABL, où elle peut fournir plus de 1700 watts de puissance de sortie utile. Ses caractéristiques de grand gain et petites distorsions la rendent spécialement avantageuse pour application en BLU. Ce tube est aussi recommandé pour utilisation en amplificatrice HF classe C.

Die EIMAC Type 5CX1500A ist eine Metall-Keramik Pentode die in erster Linie für Klasse ABL Linearverstärker entwickelt wurde. Ueber 1700 Watt brauchbare Ausgangsleistung sind erhältlich. Hohe Verstärkung und niedrige Intermodulationsverzerrungen machen diese Röhre besonders geeignet für Einseitenbandbetrieb. Die Röhre kann auch für Klasse C HF Verstärker vorgesehen werden.



: Thoriated-Tungsten
: Tungstène-thorié
: Thoriertes Wolfram

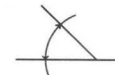


: Special
: Spécial
: Spezial



: Forced air
: Air pulsé 1,4 m³/min. 25 mm H₂O 760 mm HG 50 °C
: Druckluft

Socket, chimney, screen by-pass capacitor : SK840
Socle, cheminée, condensateur grille-écran : SK806
Sockel, Kamin, Schirmgitterkondensator :



: Vertical
: Vertical
: Senkrecht



1,5 Kg

Vh = 5,0 V
Ih = 40 A
Th = 5 sec

Cg1 = 77 µµf
Ca = 16 µµf
Cag1 = 0,11 µµf

µg2g1 = 5,5
S = 8 mA/V (Ia = 200 mA)

Max. Seal Temperature :
Température max. des sellements : 250 °C
Max. Temperatur der Einschmelzungen :

Class C telegraphy or FM telephony
 Classe C HF télégraphie ou FM
 Klasse C HF Telegraphie oder FM

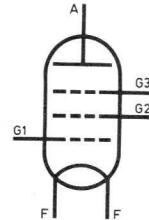
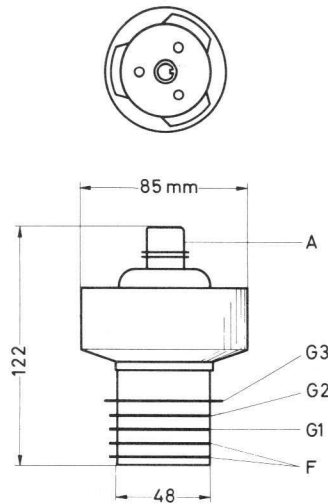
5CX1500A

Max. Ratings - Valeurs max. - Grenzwerte

f	=	110	Mc
Va	=	5000	V
Vg2	=	750	V
Ia	=	1	A
Wa	=	1500	W
Wg3	=	25	W
Wg2	=	75	W
Wg1	=	25	W

Typical Operation - Service typique - Betriebsdaten

f	=	110	110	Mc
Va	=	3000	4500	V
Vg3	=	0	0	V
Vg2	=	500	500	V
Vg1	=	-200	-200	V
Vg1p	=	255	255	V
Ia	=	900	900	V
Ig2	=	94	88	mA
Ig1	=	35	34	mA
Wg1	=	9	9	W
Wo	=	1980	3180	W



Class AB1 Linear Amplifier Single Side Band
 Classe AB1 Ampli HF linéaire bande latérale unique
 Klasse AB1 Einseitenband HF Verstärker

Max. Ratings - Valeurs max. - Grenzwerte
 Single-tone 1 fréquence Einzelton

f	=	110	Mc
Va	=	4000	V
Vg2	=	750	V
Ia	=	1	A
Wa	=	1500	W
Wg3	=	25	W
Wg2	=	75	W
Wg1	=	25	W

Typical Operation - Service typique - Betriebsdaten

f	=	<30	<30	Mc
Va	=	2500	4000	V
Vg3	=	0	0	V
Vg2	=	500	500	V
Vg1	=	-87	-90	V
Vg1p	=	87	90	V
Iao	=	250	250	mA
Ia.1	=	660	690	mA
Ia.2	=	468	485	mA
Ig2.1	=	79	59	mA
Ig2.2	=	36	25	mA
Ra	=	2340	3500	Ω
Wo	=	1090	1785	W

Class AB1 Audio Frequency Amplifier or Modulator
 Classe AB1 Amplificateur BF ou modulateur
 Klasse AB1 NF Verstärker oder Modulator

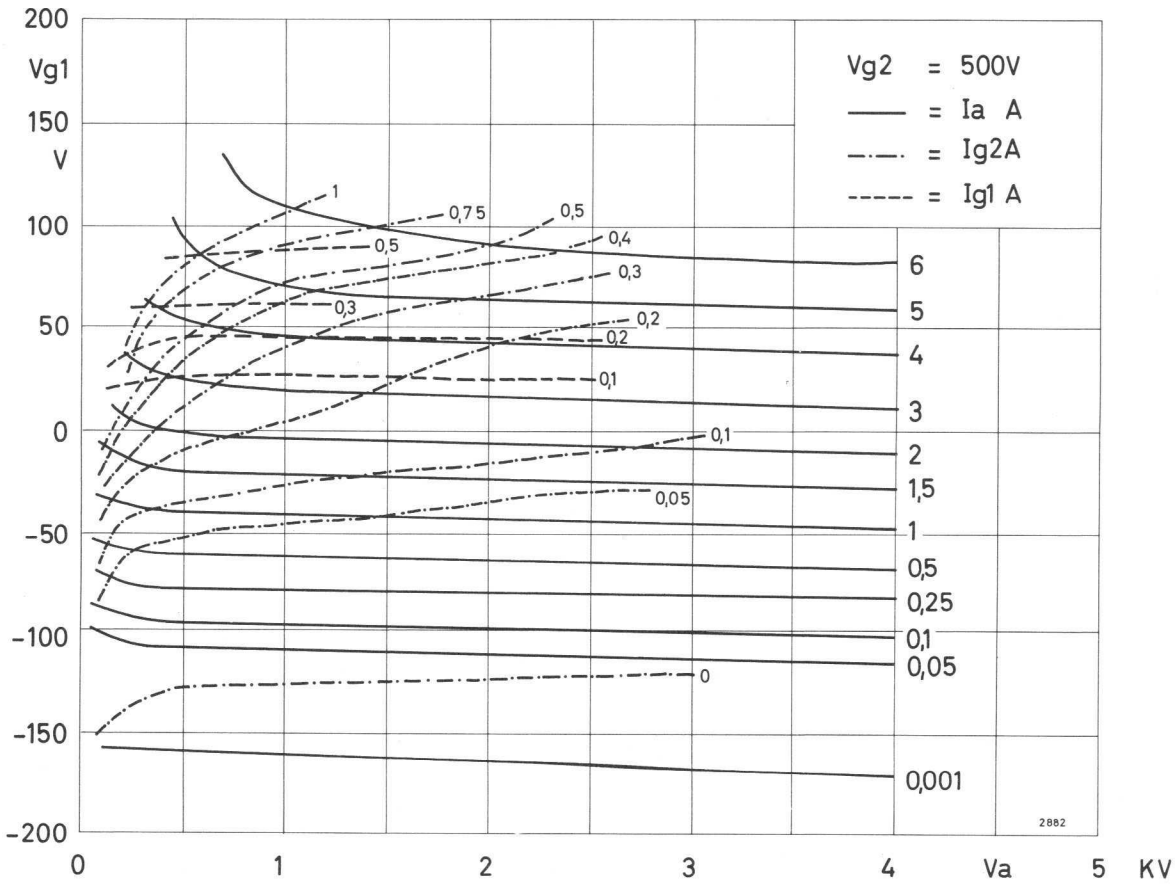
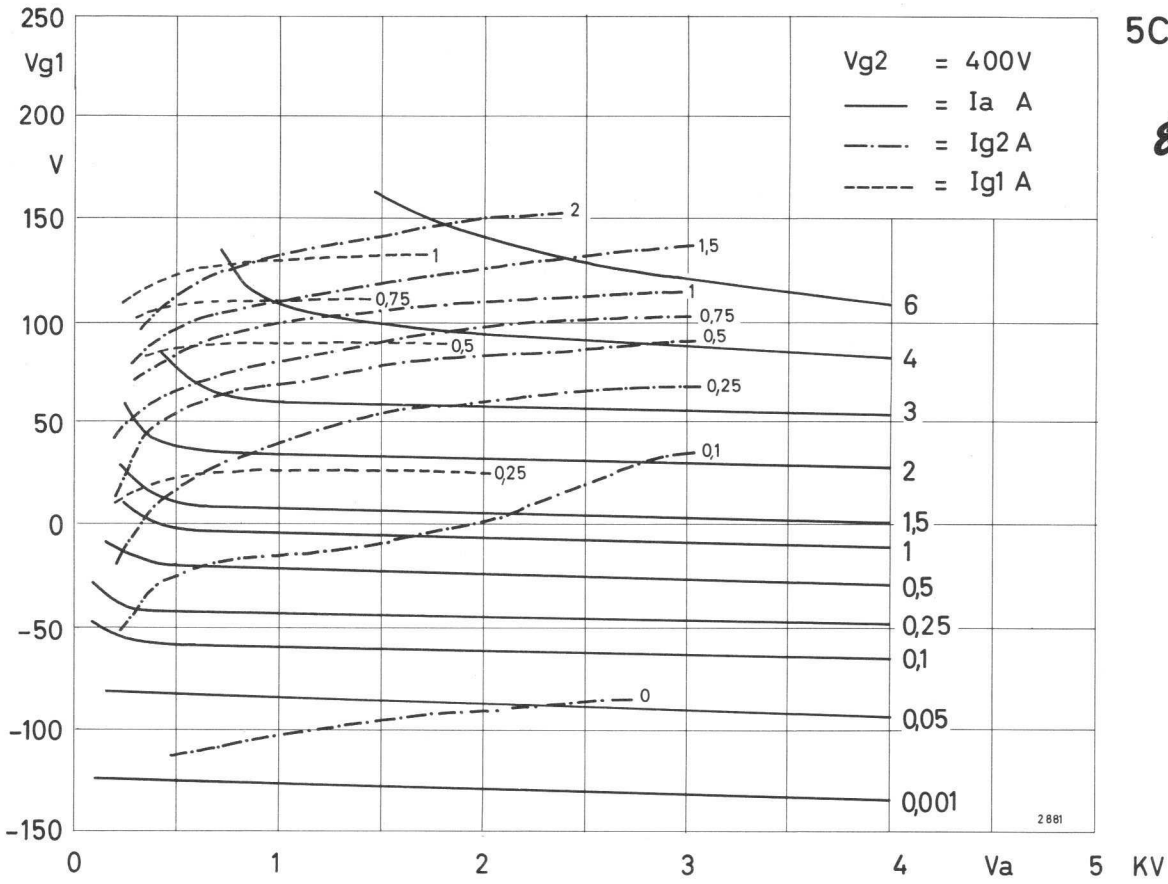
Max. Ratings - Valeurs max. - Grenzwerte
 per tube par tube pro Röhre

Va	=	4000	V
Vg2	=	750	V
Ia	=	1	A
Wa	=	1500	W
Wg3	=	25	W
Wg2	=	75	W
Wg1	=	25	W

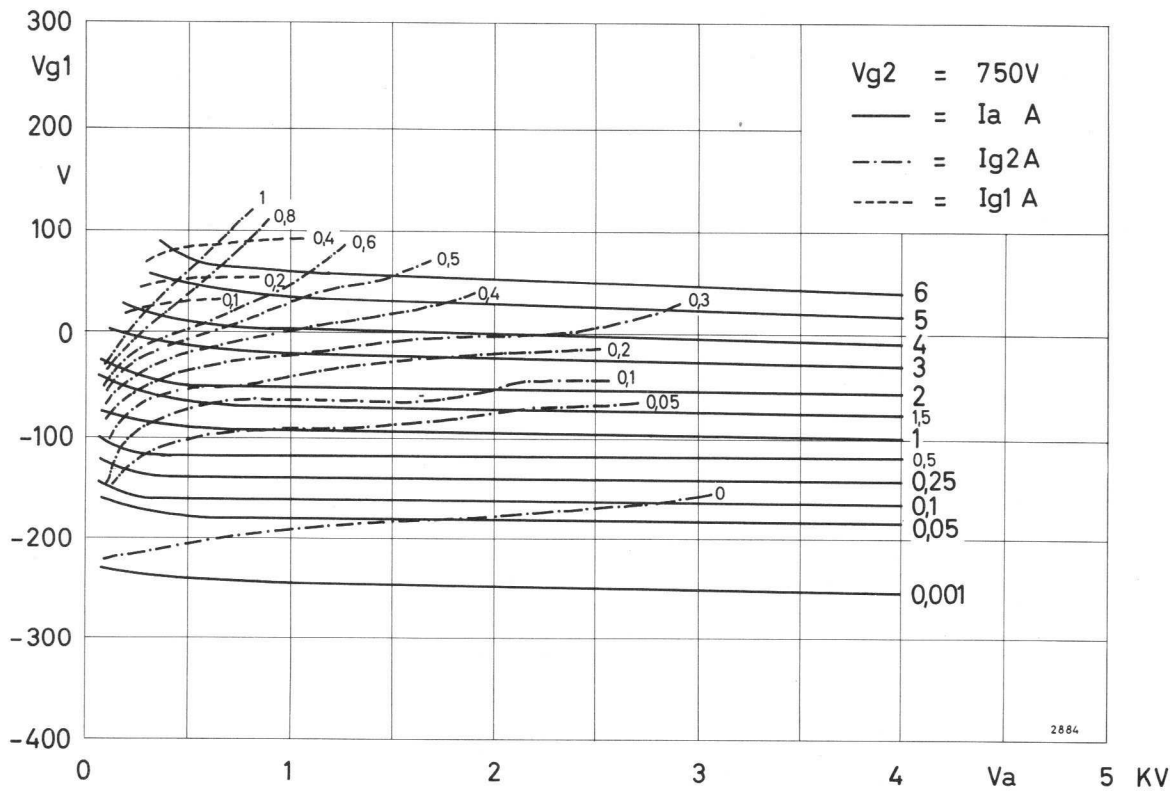
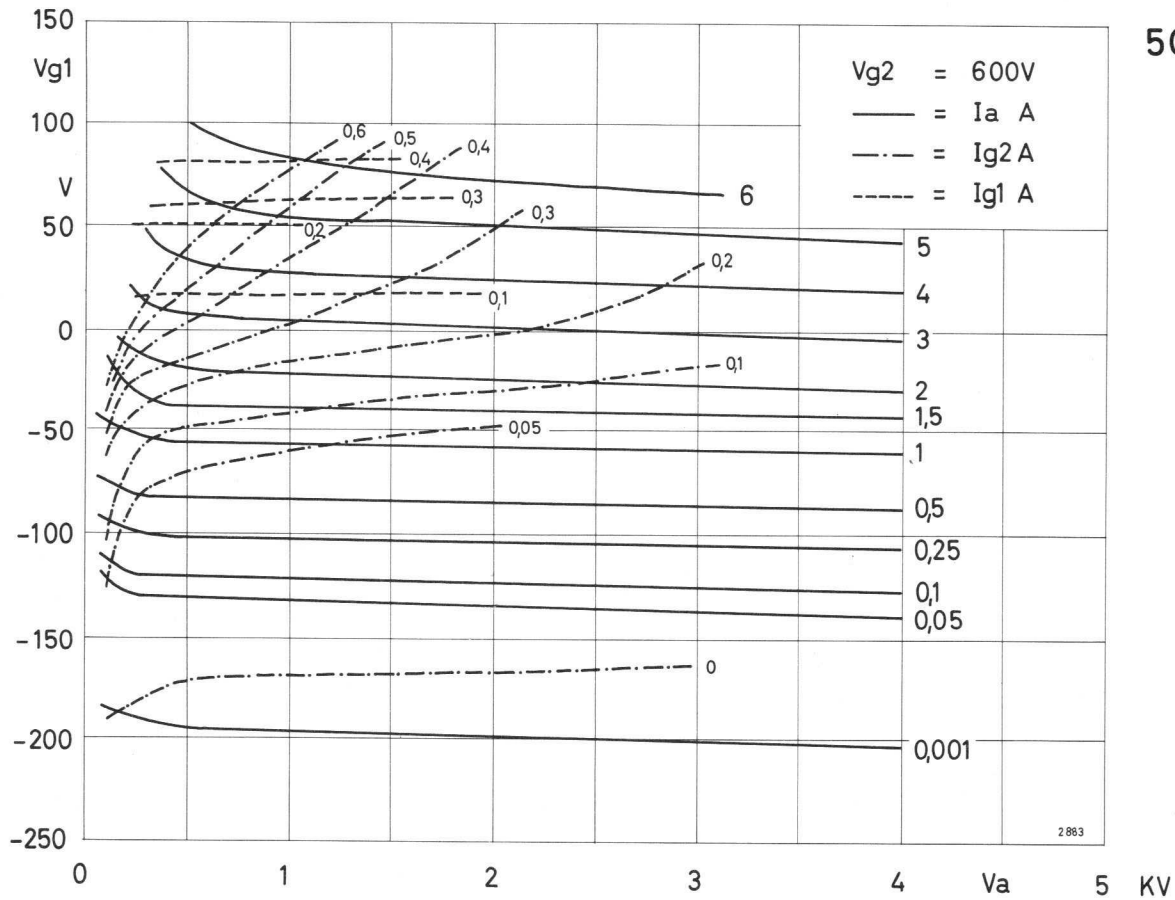
Typical Operation - Service typique - Betriebsdaten
 2 tubes 2 tubes 2 Röhren

Va	=	2800	3800	V
Vg3	=	0	0	V
Vg2	=	500	500	V
Vg1	=	-81	-83	V
Iao	=	500	500	mA
Ia	=	1300	1330	mA
Ig2.o	=	20	20	mA
Ig2	=	110	106	mA
Raa	=	4800	6760	Ω
Vg1g1p	=	162	166	V
Wg1	=	0	0	W
Wo	=	2200	3220	W

5CX1500A

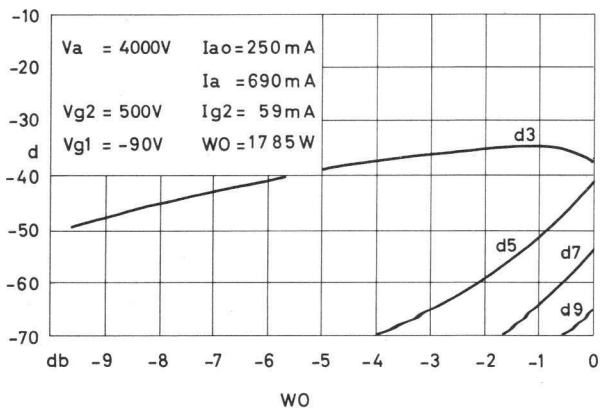
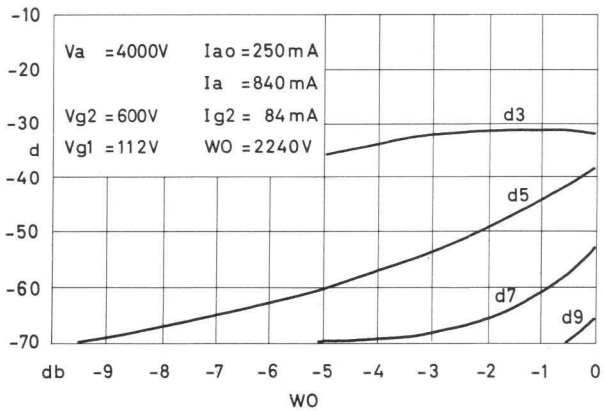
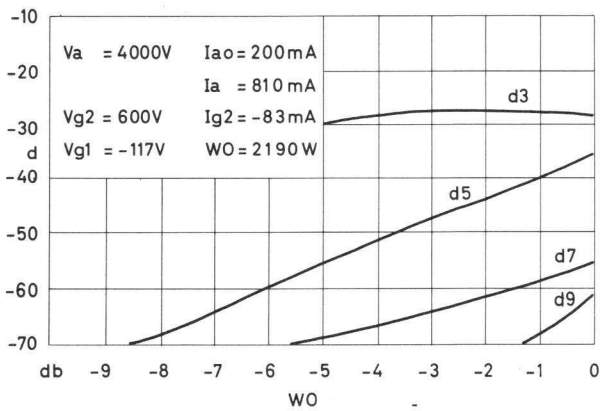
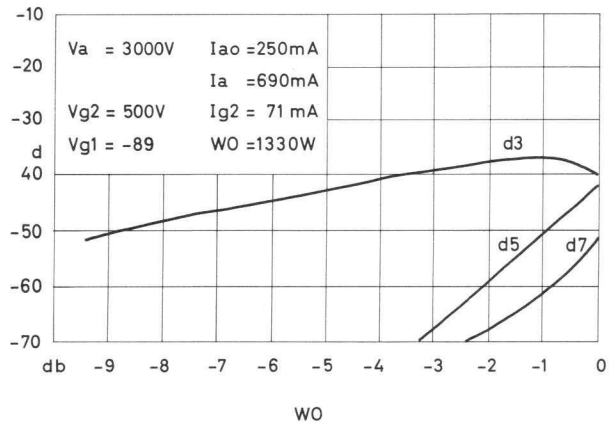
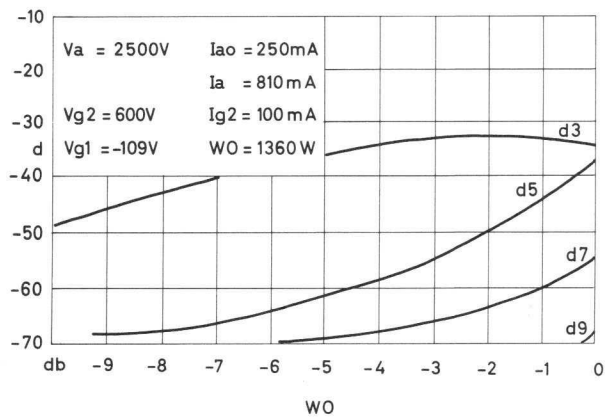
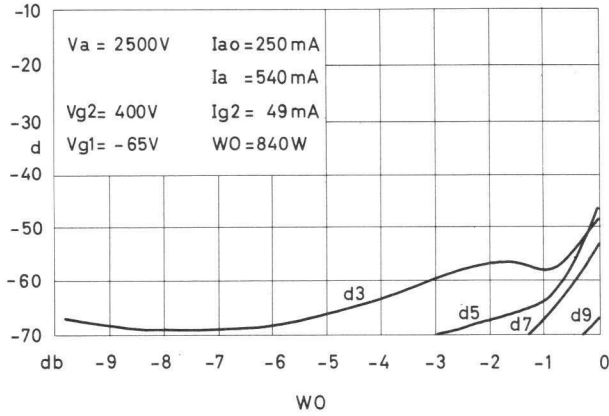
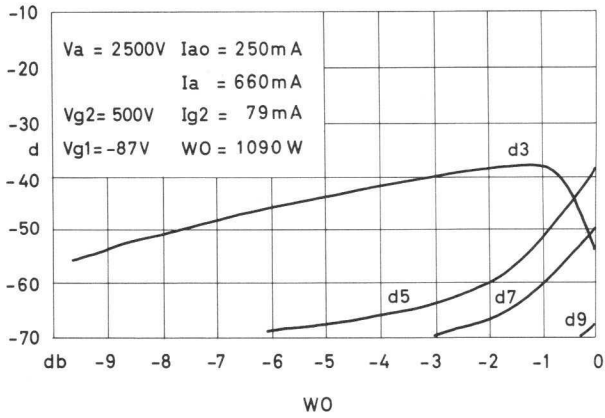


5CX1500A



INTERMODULATION

5CX1500A



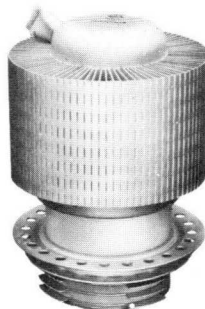
The EIMAC 5CX3000A is a metal-ceramic pentode designed primarily for for Class AB1 linear amplifier service. High gain and low distortion characteristics make the 5CX3000A especially suitable for single-side band applications. Plate dissipation 3 KW.

5CX3000A



La pentode EIMAC 5CX3000A est un tube céramique-métal conçu en premier lieu pour amplification linéaire en classe AB1. Ses caractéristiques de grand gain et petites distorsions la rendent spécialement avantageuse pour application en BLU. Dissipation anodique 3 KW.

Die EIMAC Type 5CX1500A ist eine Metall-Keramik Pentode die in erster Linie für Klasse AB1 Linearverstärker entwickelt wurde. Hohe Verstärkung und niedrige Intermodulationsverzerrungen machen diese Röhre besonders geeignet für Einseitenbandbetrieb. Anodenverlustleistung 3 KW.



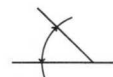
: Thoriated-Tungsten
: Tungstène-thorié
: Thoriertes Wolfram



: Special
: Spécial
: Spezial



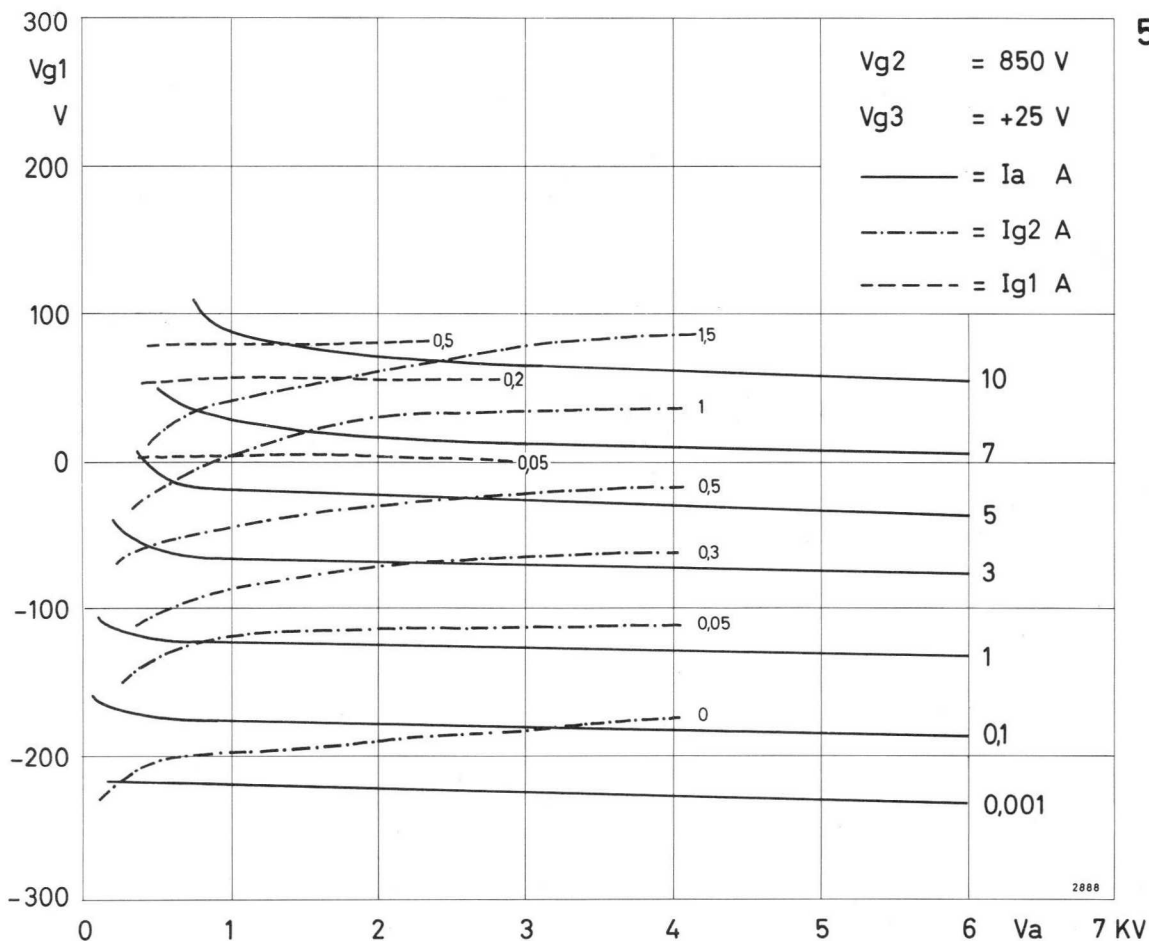
: Forced air
: Air pulsé
: Druckluft



: Vertical
: Vertical
: Senkrecht



2,5 Kg

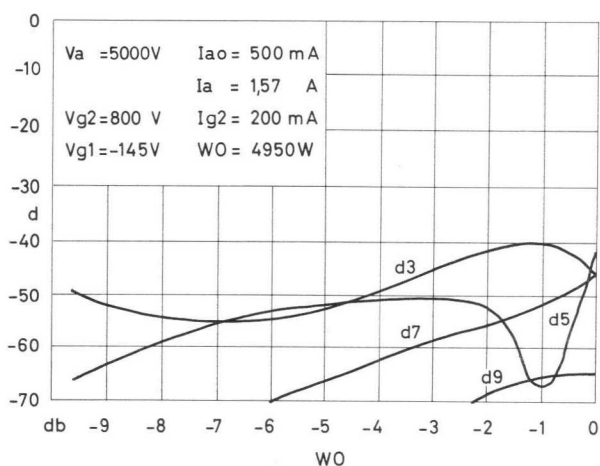
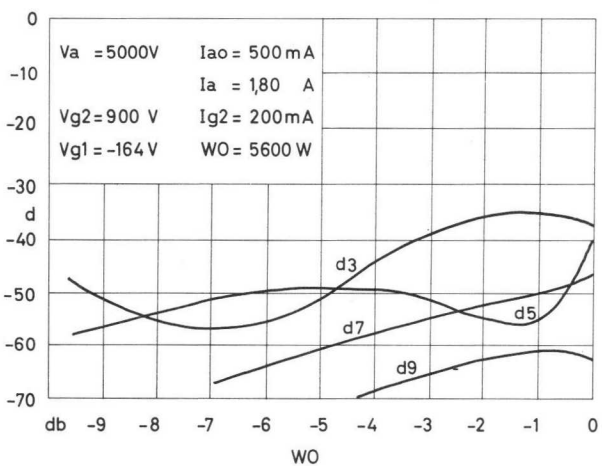
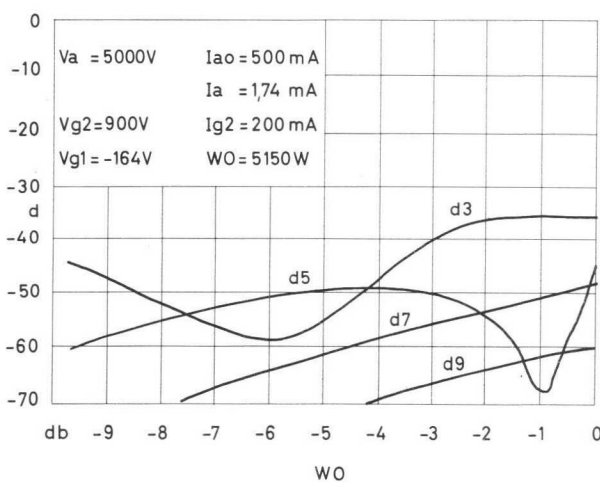
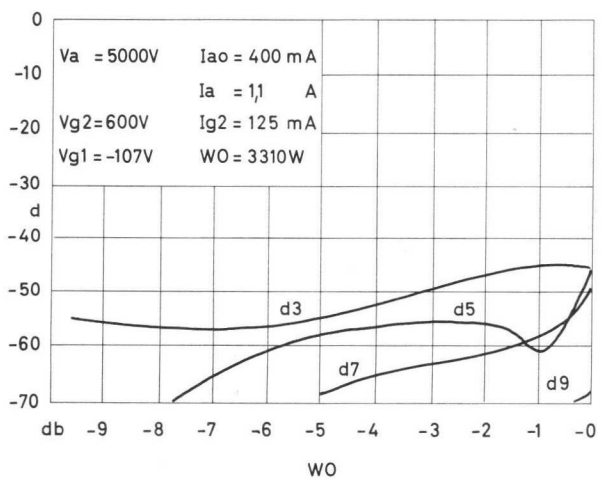
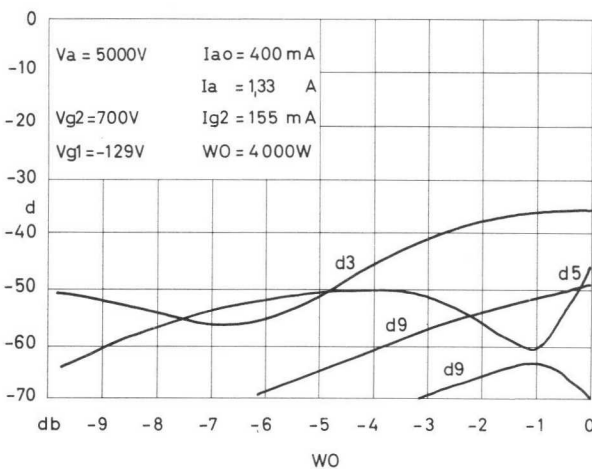
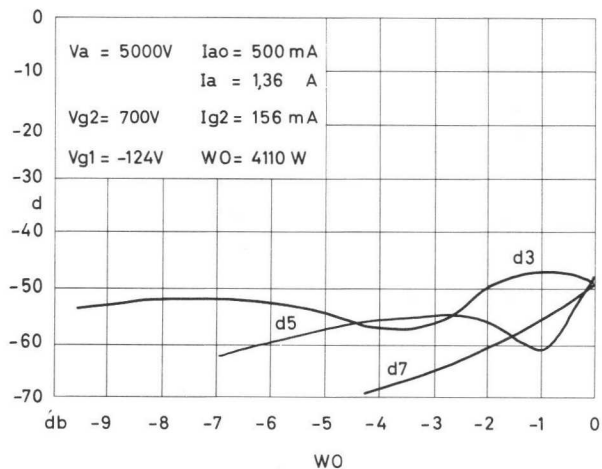


5CX3000A



INTERMODULATION

5CX3000A



The EIMAC 5CV250'000A is a ceramic-metal, vapor-cooled power pentode intended for use at the 500 Kw output level. It is recommended for use as a Class C RF amplifier or oscillator, a Class AB RF linear amplifier or a Class AB push-pull modulator. The 5CV250'000A is also useful as a plate and screen modulated Class C RF amplifier.

5CV250'000A



Le tube EIMAC 5CV250'000A est une pentode céramique-métal refroidie par vapeur pour une puissance de sortie de l'ordre de 500 Kw. Il est recommandé pour service en classe C et AB amplification linéaire ou classe AB amplification BF. Le tube 5CV250'000A peut aussi être utilisé comme amplificateur HF classe C, modulé par anode et grille-écran.

Die Type EIMAC 5CV250'000A ist eine Metall-Keramik Pentode mit Dampfkühlung für Anwendungen in der 500 Kw Leistungsklasse. Die Röhre kann für Klasse C und AB HF Verstärker vorgesehen werden. Klasse C Betrieb mit Anoden- und Schirmgittermodulation ist ebenfalls möglich.



: Thoriated Tungsten
: Tungstène thorié
: Thorierstes Wolfram

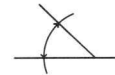


: Special
: Spécial
: Spezial



: Vapor-phase cooling
: Vapeur
: Dampfkühlung

Socket and accessories :
Socle et accessoires : BR-600
Sockel und Zubehör :



: Vertical
: Vetrical
: Senkrecht



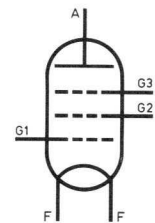
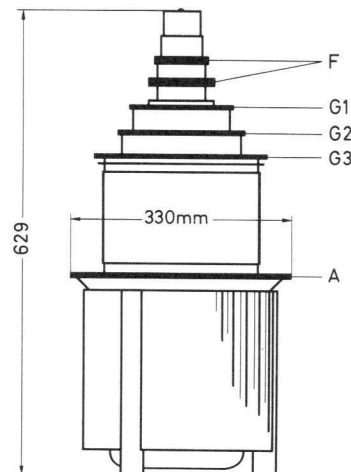
95 Kg

Vh = 12 V
Ih = 625 A
Th = 5 Min.

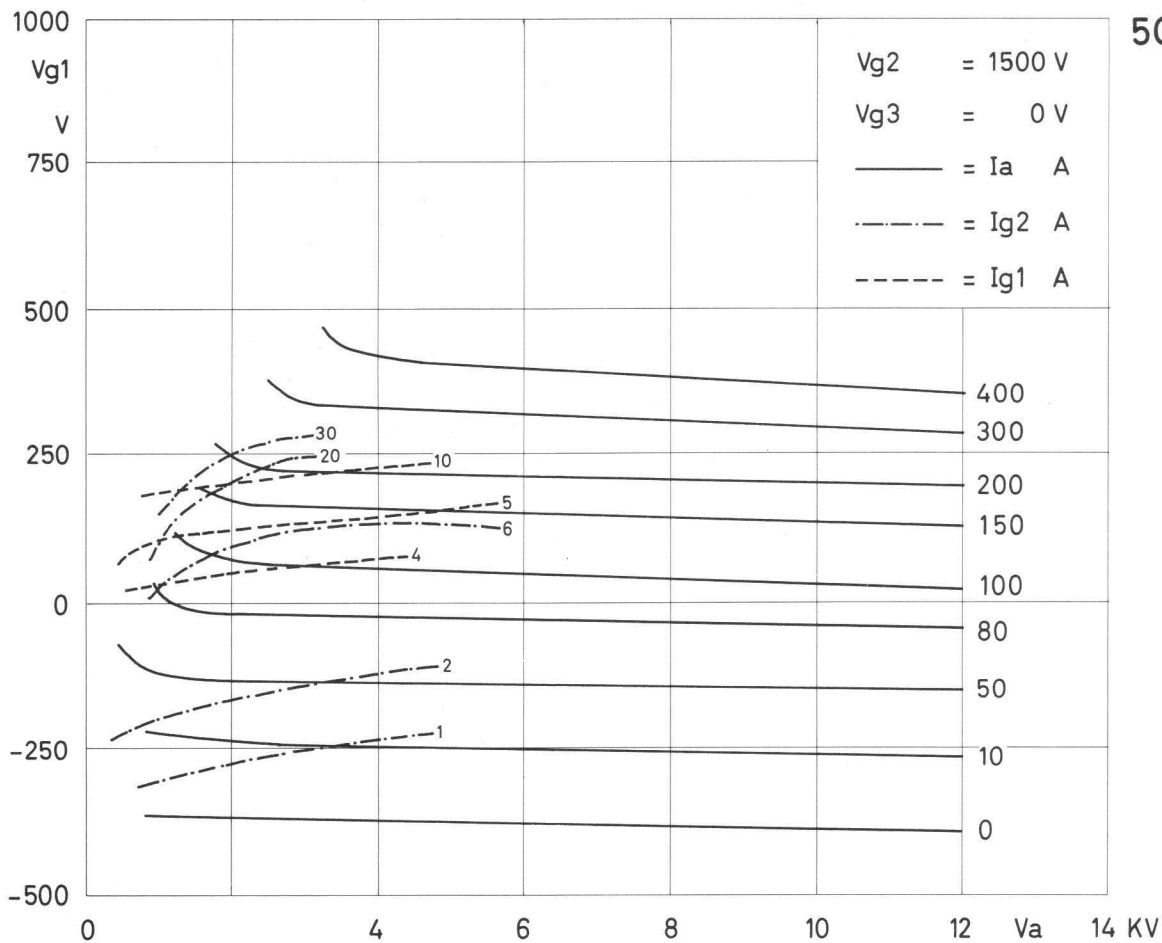
Cg1 = 877 uuf
Ca = 110 uuf
Cagl = 10 uuf

ug2g1 = 5,5
S = 320 mA/V (Ia = 10 A)

Seal Temperature :
Temperature des sellements : max. 250 °C
Tempeartur der Einschmelzungen :



5CV250000A



Class C telegraphy or FM telephony
 Classe C HF télégraphie ou FM
 Klasse C HF Telegraphie oder FM

Max. Ratings. - Valeurs max. - Grenzwerte

f	=	30	Mc
Va	=	20	KV
Vg2	=	2,5	KV
Ia	=	40	A
Wa	=	250	KW
Wg2	=	4	KW
Wg1	=	1	KW

Class C Plate modulated RF Amplifier
 Classe C Ampli HF modulation anodique
 Klasse C Verstärker anodenmoduliert

Max. Ratings - Valeurs max. - Grenzwerte

f	=	30	Mc
Va	=	15	KV
Vg2	=	1,25	KV
Ia	=	30	A
Wa	=	160	KW
Wg2	=	4	KW
Wg1	=	1	KW

5CV250'000A



Class ABL Linear Amplifier Single Side Band
 Classe ABL Ampli HF linéaire BLU
 Klasse ABL Einseitenband HF Verstärker

Max. Ratings - Valeurs max. - Grenzwerte
 Single Tone 1 fréquence Einzelton

F	=	30	Mc
Va	=	20	KV
Vg2	=	2,5	KV
Ia	=	40	A
Wa	=	250	KW
Wg2	=	4	KW
Wg1	=	1	KW

Class ABL Audio Frequency Amplifier or Modulator
 Classe ABL Amplificateur BF ou modulateur
 Klasse ABL NF Verstärker oder Modulator

Max. Ratings - Valeurs max. - Grenzwerte
 per tube par tube pro Röhre

Va	=	20	KV
Vg2	=	2,5	KV
Ia	=	40	A
Wa	=	250	KW
Wg2	=	4	KW
Wg1	=	1	KW