

Frank's Electron tube Pages

Foreign Substitutes for American Types

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Warning: Tubes are not always 100% equal!

American Types	Foreign Substitutes
0A2	150C2, 150C4, M8223, STV105/30
0A3	KD21
0A4G	PL1267, Z300T
0B2	108C1, M8224, STV108/30
0C3	KD24
0D3	150C3, KD25
0E3	85A1
0G3	85A2
10CW5	LL86
10DE7	9R-AL1
10DX8	LCL84
11BM8	LCL82
11R3	LY81
11Y9	LFL200
1267	Z300T
12A8	OH4
12AC5	10F9, 121VP, HF121, UF41, W118, W142, W145
12AD7	6L13
12AF3	12R-K19
12AH8	20D3
12AJ7	HCH81
12AL5	10D2, HAA91, UB91

12AT6	12BC32, HBC90, HBC91
12AT7	B152, B309, B739, ECC81, ECC801, ECC801S, E81CC, M8162, QA2406, QB309
12AU6	12F31, HF93, HF94
12AU7	B329, B749, E82CC, ECC82, ECC186, ECC802, ECC802S, M8136
12AV6	12BC32, HBC90, HBC91
12AV7	12R-LL3
12AX7	6L13, B339, B759, E83CC, ECC83, ECC803, M8137
12B06GT	12G-B6
12BA6	12F31, HF93, HF94
12BE6	12H31, HK90
12BK6	12BC32, HBC90, HBC91
12BR3	12R-K19
12BT6	12BC32, HBC90, HBC91
12BX6	10F18, W119
12BY7	EL180
12C8	VP12D
12CS6	12H31, HK90
12DF7	6L13, B339, B759, ECC83, ECC803
12DT7	6L13, B339, B759, ECC83, ECC803
12FB5	30P12
12HU8	PLL80
12K7	W76
12K7GT	OF5, W76
12K8	X71M, X76M
12Q7GT	DH74, DH76, DL74M
12S7	UAF42, WD142
12SN7GT	13D2, B36
12SQ7	OBC3
12SX7GT	B36

12X4	HZ90
12Z3	HZ90
13CM5	12G-B7, XL36
13EC7	10F18, W110, W119
13GB5	12B-B14, XL500
13GC8	30PL1, 30PL10, LN319
14G6	10LD13, DH119, UBC81
14K7	141TH, UCH42, UCH43, X142
14L7	10LD3, 141DDT, DH118, DH142, UBC41
14Z3	HZ90
15A6	N153, N309, PL83
15CW5	30P18, N379, PL84
15DQ8	PCL84
16A5	30P16, 30P18, 163PEN, N154, N329, N379, PL82, PL84
16A8	30PL12, N369, PCL82
16AQ3	XY88
16GK8	30PL13, 30PL14, PCL88, PCL800
16Y9	PFL200
17C8	17N8, 171DDP, UBF80
17EW8	HCC85
17N8	UBF80
17Z3	A61, PY81, PY83, PY800, PY801, U153, U193, U251, U349
18FW6	19M-R9
18FX6	X107
18GD6	19M-R9
18GV8	PCL85
19AQ5	HL90
19C8	HABC80
19CS4	U191, U339
19D8	10C14, 19AJ8, UCH81, X119

19T8	HABC80
19X3	19BD, 19U3, 19W3, PY80, U152, U309
19Y3	19SU, PY82, U154, U192, U319
1A3	1D13, DA90
1A5G	DL31
1A7GT	DK32, X14
1AB6	1C3, 1H35, DK96, X25
1AC6	1C2, DK92, X18, X20
1AD4	DF62
1AF4	1F1, DF96, W25
1AF5	1FD1, DAF96, ZD25
1AH5	1FD1, DAF96, ZD25
1AJ4	1F1, DF96, W25
1AM4	1F1, DF96, W25
1AN5	DF97
1AQ5	1H33
1AR5	1FD1, DAF96, ZD25
1AS5	DAF92
1B3GT	DY30, U41
1C5GT	DL35, DL36, N14
1DN5	DAF92
1E3	DC80
1F5G	KL35
1G3GT	DY30, U41
1H5GT	DAC32, HD14
1J3	DY30, U41
1K3	DY30, U41
1L4	1F2, DF92
1M3	DM70, DM71, Y25
1N3	DM71, DM70, Y25

1N5GT	DF33, Z14
1Q5GT	DL35, DL36, N14
1R5	1C1, DK91, X17, 1H33
1R5SF	1H33
1S2	1RK23, DY86, DY87
1S2A	DY87
1S4	DL91
1S5	1FD9, DAF91, ZD17
1T2	R16, U37
1T4	1F3, DF91, W17
1T4SF	1F1, DF96, W25
1T5GT	DL31
1U4	DF904
1U5	DAF92
1V	AD
1V6	DCF60
1X2	DYB0, R19
1X2A	DY80, R19
2050	EN32, ME1501
20AQ3	LY88
20GF6	30P4, 30P19, N389, PL302
21A6	213PEN, N152, N339, N359, PL81, PL820
21KQ6	LL521
25A6	KT33
25BQ6GT	25G-B6
25E5	30P4, 30P19, N308, PL36
25L6	KT32
25W6GT	KT32
25Y4	PY31, U31
25Z4GT	U31

27GB5	PL500
27KG6	LL505
28EC4	LY500
28GB5	PL500
2B35	6D1, EA50, T6D
2D21	20A3, E91N, EN91, M8204, PL21
2ER5	XC95, XC97
2FY5	XC95, XC97
2HA5	XC900
2J2	R20, U26, U49
30A5	HL94
30AE3	PY88
31A3	311SU, U118, U142, U145, U404, UY41, UY42, V311, V312
35C5	HL94
35W4	HY90
35Z4GT	U74, U76
38A3	U119, U381, UY85
3A4	DL93
3A5	DCC90
3AJ8	XCH81
3AL5	XAA91
3AU6	XF94
3B4	DL98, HD30
3B5GT	DL33, N15, N16
3BX6	XF80, XF85
3BY7	XF80, XF85
3BZ6	3M-V7
3C4	1P1, DL96, N25
3C5GT	DL33, N15, N16
3D6	DL29

3DK6	3M-R24
3E5	1P1, DL96, N25
3EH7	XF183, XF184
3EJ7	XF183, XF184
3ER5	YC95
3FY5	YC97
3HA5	LC900
3Q4	DL95, N18
3Q5GT	DL33, N15, N16
3S4	1P10, DL92, N17
3V4	1P11, DL94, N19
40KG6	PL505
42EC4	PY500
45A5	10P14, 451PT, BF451, N142, UL41, UL46
45B5	10P18, N119, UL84
4BC8	4R-HH2
4BL8	5R-HP1, XCF80
4BS8	4R-HH2
4CM4	PC86
4EH7	LF183, YF183
4EJ7	LF184, YF184
4ES8	4R-HH8, XCC189
4GJ7	XCF801
4GK5	PC95
4HA5	PC900
4KN8	4R-HH8
50BM8	10PL12, 48A8, LN119, UCL82
50C5	HL92
50L6GT	KT71
55N3	UY82

5636	EF730
5642	DY70
5654	DP61, E95F, EF95, EF905, M8100, M81B0, PM05
5678	DF60
5726	6D2, D2M9, D77, D152, D717, DD6, DD6G, E91AA, EAA91, EAA901S, EB91, M8079, M8212, QA2404, QD77
5763	QE03/10, QV03-12
5823	Z900T
5840	EF732
5847	6R-R8, 6R-R8C, E182F
5852	EZ35, U70, U147
5861	EC55
5899	EF731
5901	EF72, EF732, M8121
5902	EL71
5911	DF67
5913	DL67
5920	E90C, E90CC
5AR4	52KU, 53KU, 54KU, GZ30, GZ32, GZ33, GZ34, GZ37, R52, U54, U77
5AW4	U54
5AX4GT	U54
5BK7A	4R-HH2
5CG4	OSW3107
5EA8	XCF80
5GJ7	LCF801
5HG8	LCF86
5J6	5M-HH3
5T4	GZ31, U52
5U4G	5Z10, GZ32, U52

5U8	XCF80
5U9	LCF201
5V4G	52KU, 53KU, 54KU, GZ30, GZ32, GZ33, GZ34, OSW3107, R52, U54
5V9	LCH200
5W4	U50, U51
5X9	LCF200
5Y3GT	U50, U52
5Z4	52KU, 53KU, 54KU, GZ30, GZ32, GZ33, GZ34, OSW3107, R52, U54, U77
5Z4G	52KU, GZ30, R52, U77
6007	DL67
6008	DF67
6057	ECC803
6060	ECC801
6063	EZ900
6080	A1834, ECC230
6084	E80F
6085	E80CC
6146	QE05/40, QV06-20
6158	13D3
6159	QE05/40H
6189	E82CC, ECC802
6205	EF734
6218	E80T
6227	E80L
6252	QQE03/20, QQV03-20
6267	8D8, 6F22, EF86, EF87, EF806S, M8195, Z729
6351	Z319
6360	QQE03/12, QQV03-10

6374	EY84
6443	EY84
6463	CC86E, ECC86, ECC813
6550	ZD11, 12E13, KT88
6681	B339, B759, E83CC, ECC83, M8137
6686	E81L
6687	E91H
6688	E180F
6689	E83F
6922	E88CC
6939	QQE02/5, QQV02-6
6A6	B63
6A8	PH4, X63
6AB4	EC92
6AB7	6F10, OSW2190, OSW2600
6AB8	63TP, ECL80, LN152
6AC7	6F10, OSW2190, OSW2600
6AD8	6FD12, EBF80, EBF81, EBF89, WD709, ZD152
6AF3	EY88
6AF4	EC94
6AF7G	64ME, EM34
6AG5	EF96
6AG7	6L10, OSW2192, OSW2601
6AH6	6F36
6AJ4	EC84
6AJ5	6F35
6AJ7	6F10, OSW2190, OSW2600
6AJ8	6C12, 20D4, ECH81, X719
6AK5	6F32, DP61, E95F, EF95, EF905, M8100, PM05
6AK7	6L10, OSW2192, OSW2601

6AK8	6LD12, DH719, EABC80
6AL3	EY88
6AL5	6B32, 6D2, D2M9, D77, D152, D717, DD6, EAA91, EB91, EAA901, EAA901S
6AM5	6P17, 7D9, 16A, DD7, DDR7, EL91, M8082
6AM6	6F12, 8D3, EF91, HP6, M8083, PM07, QA2403, QZ77, R144, S6F12, SP6, Z77
6AN7	ECH80
6AQ4	6L34, EC91, M8099
6AQ5	6L31, BPM04, EL90, M8245, N727
6AQ8	6L12, B719, ECC85
6AS6	6F33, M8196
6AS7G	A1834, ECC230
6AT6	6BC32, DH77, EBC90, EBC91
6AU4GT	6G-K17
6AU6	EF94
6AV4	6FX4, EZ91
6AV6	6BC32, DH77, EBC90, EBC91
6AW6	EF190
6B8	EBF32
6BA6	6F31, EF93, M8101, PM04, W727
6BC5	EF96
6BD7	EBC80, EBC81, 6LD13
6BE6	6H31, EK90, HM04, X77, X727
6BE7	EQ80
6BH5	EF81
6BH6	E90F
6BJ5	N78
6BJ6	E99F
6BK6	6BC32, DH77, EBC90, EBC91

6BK8	EF83
6BL8	6C16, ECF80, E80CF
6BM5	6L31, 6P9, EL90, N727
6BM8	6PL12, ECL82
6BN5	EL85, N155
6BQ5	6P15, EL84, E84L, N709
6BQ6GT	6G-B6
6BQ7A	ECC180
6BR3	EY88
6BR5	65ME, EM80, EM81
6BR7	8D5
6BS7	8D7
6BS8	6R-HH2
6BT4	66KU, EZ40, U150, U718, UU9, V61
6BT6	6BC32, DH77, EBC90, EBC91
6BW7	6F23, 8D6, EF80
6BX6	8D6, 64SPT, EF80, Z152, Z719
6BX8	6R-HH2, ECC180
6BXA	EZ91
6BY6	6H31, EH90, EK90
6BY7	6F19, 6F26, EF85, W719
6C4	EC90, L77, M8080, QA2401, QL77
6C5	L63, OSW3112
6CA4	EZ81, U709, UU12
6CA7	7D11, 12E13, EL34, KT77, KT88
6CB6	EF190
6CD7	64ME, EM34
6CE5	EF96
6CF6	EF190
6CH6	7D10, EF82, EL821, EL822

6CJ5	6C15(*1), 6F16, 7F16, 62VP, EF41, HF61, W150
6CJ6	EL81, EL820
6CK5	67PT, BF61, EL41, N150
6CK6	EL83, EL820, EL803
6CL6	6L43
6CM4	EC86, E86C, EC806S
6CM5	6G-B7, EL36, EL360
6CN6	5P29, EL38
6CQ6	6F21, 9D6, EF92, M8161, QA2400, QW77, V177, V884, VP6, W77
6CS6	6H31, EH90, EK90
6CT7	D61, EAF42, WD150
6CU6	6G-B9
6CU7	62TH, ECH42, ECH43, ECH113, 6C9, 6C10, X150
6CV7	6LD3, 62DDT, DH150, DH718, EBC41
6CW5	EL86
6CW7	6L16, ECC84
6D4	EN93
6D8	X73, X73M
6DA5	65ME, EM80, EM81
6DA6	EF89
6DC6	EF190
6DC8	6FD12, EBF85, EBF89
6DG7	EF89F
6DJ8	ECC88, ECC189, E88CC
6DL4	EC88
6DL5	EL95
6DQ6A	6G-B9
6DR6	EL81, EL820
6DR8	EBF83
6DS8	ECH83

6DT8	6AT7N
6DX8	ECL84
6DY5	EL82
6E5	6S5G, OSW3110
6E8G	X61M, X147, ECH35, TH62
6EB5	6B32, 6D2, D2M9, D77, D152, D717, DD6, EAA91, EB91, EAA901, EAA901S
6EC4	EY500
6EC7	6F18, W739
6EH7	6F25, 6F29, EF183, EF811
6EJ7	6F24, 6F30, EF184, EF814
6EL7	6F23, EF812, Z749
6ER5	EC95, EC97
6ES6	EF97, EF98
6ES8	ECC88, ECC189
6ET6	EF97, EF98
6F5GT	H63
6F6G	KT63
6FC7	ECC89
6FD6	EF97, EF98
6FG6	EM84, EM840
6FW8	6R-HH8, ECC88, ECC189
6FY5	EC95, EC97
6GA8	6/30L2, B729, ECC804
6GB5	EL500
6GJ7	ECF801
6GM8	ECC86
6GV7	6C18, ECF805
6GV8	ECL85
6GW8	ECL86

6H5G	6M1
6H6	D63, EB34, OSW3109
6HA5	EC900
6HC8	ECL82
6HG5	6L31, 6P9, EL90, N727
6HG8	ECF86
6HL8	6C16, ECF80
6HM5	EC900
6HQ5	EC900
6HQ6	EF190
6HU6	EM87
6HU8	ELL80
6J4	6M-H1, M8232, TM12
6J5	L63, L63B, OSW3112
6J6	6CC31, 6M-HH3, ECC91, M8081, T2M05
6J7	A863, EF37, Z63
6J7GT	A863, KTW63, KTZ63, KTZ63M, Z63, EF37
6JW8	ECF802
6JX8	ECH84
6K7	PF9, W61, W63, EF39, OM6, W147
6KN8	6R-HH8, ECC88, ECC189
6L6	EL37
6L6GC	KT66
6L7	X64
6LN8	LCF80
6LX8	LCF802
6M5	EL80
6M6G	EL33, KT61, N147, PP6BG
6N3	EY80, EY82
6N8	EBF80, EBF81, WD709, ZD152

6Q4	EC80
6Q7	DH63
6R3	63VP, EY81, EY83, EY88
6R4	EC81
6R8	6LD12, DH719, EABC80
6S2	EY86, EY87
6S2A	EY87
6S7	OF1, OM5
6SA7	OSW3104
6SK7	OSW3111
6SL7	ECC35
6SN7GT	13D2, B65, ECC32, QA2408, QB65
6SQ7	OSW3105
6T8	6LD12, DH719, EABC80
6U3	EY80
6U8	ECF80, ECF82
6U9	ECF201
6V3	EY81F
6V4	EZ80
6V6GT	OSW3106
6V9	ECH200
6W7G	8D4
6X2	EY51, R12, SU61, U43, U45, U151
6X4	6Z31, E90Z, EZ90, EZ900, U707, V2M70, QA2407, U78
6X5G	EZ35, U147, U70
6X9	ECF200
6Y9	EFL200
6Z3	AD
7025	B339, B759, ECC83, M8137
7027	KT66

7027A	KT88
7062	E180CC
7119	E182CC
7308	E188CC
7320	E84L
7408	OSW3106
7534	E180L
7543	EF94
7581	KT66, KT77
7643	E80CF
7722	E280F
7737	E186F
7788	E810F
7A7	W81, W148, EF22, W143
7AN7	30L1, 30L15, B319, PCC84
7AU7	PCC186, XCC82
7B5	EL22, KT81, N148
7B6	DH81, DL82
7B7	W149
7C5	EL22, KT81, N148
7C6	DH149
7DJ8	PCC88, PCC189
7ED7	30F5, Z329
7EK7	30L15, B349, PCC805
7ES8	PCC88, PCC189
7FC7	PCC84, PCC89
7GV7	30C18, PCF805
7H7	EF22, W143, W148
7S7	X81, X148
7Y4	U82, U149

807	4Y25, 5S1, P17A, QE06/50, QV05-25
8223	E288CC
8228	ZZ1000
8233	E55L
8254	EC1000
8278	EL503, F1EL
8453	Z550M
8A8	30C1, LZ319, LZ329, PCF80, PCF82
8B8	8R-HP1, XCL82
8BQ5	XL84
8CW5	XL86
8GJ7	PCF801, PCF806
8HG8	PCF86
8U9	PCF201
8X9	PCF200
954	E1F, UN954, ZA2
955	1650, 4671, E1C, HA2, UN955
956	E2F
957	D1C
958A	D2C
959	D3F
9905	QQC04/15
9910	QQE03/20, QQV03-20
9A8	30C1, LZ319, LZ329, PCF80
9AK8	PABC80
9AQ8	PCC85
9BM5	9P9
9EA8	30C1, LZ319, LZ329, PCF80, PCF82
9EN7	30C15, LZ339, PCF800
9GB8	30FL1, PCE800

9GV8	XCL85
9U8	30C1, LZ319, LZ329, PCF80, PCF82
9V9	PCH200