

Technical data

The values specified apply for self-excited operation. The drive power P_1 has already been deducted from the tube output power; P_2 is thus the power available at the output of the oscillator, but excluding circuit-dependent losses.

The table lists the maximum ratings and operating data. The specified limiting frequency is in this table the absolute maximum operating frequency. If a tube is to be operated at an even higher frequency, other maximum ratings must be reduced. Detailed information is available on request.

		RS 3005 CL/CJ	RS 3010 CL/CJ	RS 3026 CL/CJ	RS 3040 CL/CJ	RS 3050 CL/CJ	RS 3150 CJ	RS 3300 CJ	RS 2041 J	RS 1023 L	RS 3002 CL	
Maximum ratings												
Frequency	f	160	150	120	100	100	100	50	30	900	500	MHz
Plate voltage	U_A	7.2	7.2	12	14	14	14	15	19	1.9	3.5	kV
Grid voltage	U_G	-1	-1	-1.5	-1.5	-1.5	-2	-2	-2	-0.3	-0.5	kV
Cathode current	I_K	1.4	3.5	6	12	15	30	50	60	0.5	2	A
Peak cathode current	I_{KM}	7.5	14	30	50	70	125	250	280	2.2	7	A
Plate power dissipation	P_A	2.5	5	15	25	35/40	100	150	240	0.3	3	kW
Grid power dissipation	P_G	0.15	0.2	0.45	0.7	1	2	3.5	7	0.013	0.05	kW
Grid resistor tube not conducting	$R_{G, \text{sperr}}$	20	20	15	12	8	5	3	3	20	20	k Ω
Operating data												
Frequency	f	85	50	40	30	30	30	30	10	433.92	433.92	MHz
Power output	P_2	6	12	38	60	110	210	350	550	0.37	1.9	kW
Plate voltage	U_A	6.3	7	10	10	12	12.5	14	15	1.7	3	kV
Grid voltage	U_G	-550	-600	-800	-900	-800	-700	-600	-740	-100	-230	V
Peak RF grid voltage	U_{gm}	950	805	1260	1360	1290	1150	1310	1370	220	370	V
Feedback factor	K	16.8	13.1	14	15.3	11.9	10.2	10.4	10.1	17	18.5	%
Plate current	I_A	1.27	2.25	4.9	7.8	12	22	32	48.3	0.35	1.15	A
Grid current	I_G	0.3	0.47	0.89	1.47	1.95	3.3	6.3	9.1	0.09	0.33	A
Maximum grid current	$I_{G, \text{max}}$	0.35	0.6	1	1.6	2.1	4	7	11	0.11	0.35	A
Maximum grid current in unloaded condition	$I_{G, \text{leer}}$	0.45	0.75	1.4	2.3	3	6	9	14	0.14	0.42	A
Grid resistor	R_G	1630	1050	900	610	410	210	127	81	1100	700	Ω
Plate input power	P_{gA}	8	16	49	78	144	275	448	725	0.6	3.6	kW
Drive power	P_1	0.27	0.36	1.06	1.8	2.4	3.6	7.8	11.7	0.02	0.12	kW
Plate power dissipation	P_A	1.75	3.4	10	16	32	61	90	163	0.21	1.45	kW
Grid power dissipation	P_G	0.1	0.13	0.36	0.67	0.83	1.8	2.8	4.9	0.01	0.04	kW
Oscillator efficiency	η_{osc}	75	76	77.5	77	76	76	78	76	62	55	%
Plate load resistance	R_A	2660	1650	1070	660	530	305	230	169	2300	1050	Ω
Heater voltage	U_F	6.3	6.3	7	8	10	15	18	20	3.4	3.2	V
Heater current	I_F	33	66	115	185	190	255	425	330	18.5	85	A

Equivalents list

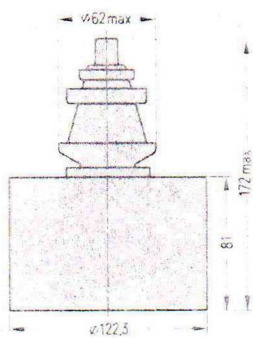
The following table lists tubes of other manufacturers with the equivalent Siemens replacement tube. In some cases, minor modifications may be necessary because of slight electrical or mechanical differences. If replacement is envisaged, the nearest Siemens sales office will willingly provide assistance.

Type	Siemens equivalent	Type	Siemens equivalent
8680*	RS 3300 CJ	ITK 60-2	RS 3150 CJ
8728*	RS 3005 CL	ITK 120-2	RS 3300 CJ
8730*	RS 3005 CJ	ITK 200-1	RS 2041 J
8731*	RS 3010 CL	ITL 3-1	RS 3005 CL
8733*	RS 3010 CJ	ITL 5-1	RS 3010 CL
8735*	RS 3026 CJ	ITL 12-1	RS 3026 CL
8752*	RS 3150 CJ	ITL 10-2	RS 3026 CL
8801*	RS 3026 CL	ITL 15-2	RS 3040 CL
8913*	RS 3060 CL	ITL 30-2	RS 3060 CL
8918*	RS 2041 J	TH 350	RS 3026 CL
8935*	RS 3040 CL	TH 351	RS 3040 CL
8936*	RS 3040 CJ	TH 352	RS 3060 CL
8937*	RS 3060 CJ	TH 543	RS 2041 J
3 CW 5000 H3	RS 3010 CJ	TH 750	RS 3026 CJ
3 CW 10000 H3	RS 3026 CJ	TH 751	RS 3040 CJ
3 CW 30000 H3	RS 3040 CJ	TH 752	RS 3060 CJ
3 CW 40000 H3	RS 3060 CJ	YD 1150	RS 3005 CL
3 CX 2500 H3	RS 3005 CL	YD 1152	RS 3005 CJ
3 CX 10000 H3	RS 3026 CL	YD 1160	RS 3010 CL
3 CX 15000 H3	RS 3040 CL	YD 1162	RS 3010 CJ
3 CX 20000 H3	RS 3060 CL	YD 1170	RS 3027 CL
BR 1182	RS 3040 CL	YD 1172	RS 3026 CJ
BR 1195	RS 3005 CL	YD 1175	RS 3026 CL
BR 1196	RS 3010 CL	YD 1177	RS 3026 CJ
BW 1182 J3	RS 3040 CJ	YD 1192	RS 3060 CJ
BW 1184 J2	RS 3150 CJ	YD 1180	RS 3026 CL
BW 1185 J2	RS 3300 CJ	YD 1182	RS 3026 CJ
BW 1195 J3	RS 3005 CJ	YD 1185	RS 3040 CL
BW 1196 J3	RS 3010 CJ	YD 1186	RS 3040 CL
ITK 3-1	RS 3005 CJ	YD 1187	RS 3040 CJ
ITK 5-1	RS 3010 CJ	YD 1195	RS 3060 CL
ITK 12-1	RS 3026 CJ	YD 1197	RS 3060 CJ
ITK 10-2	RS 3026 CJ	YD 1202	RS 3150 CJ
ITK 15-2	RS 3040 CJ	YD 1212	RS 3300 CJ
ITK 30-2	RS 3060 CJ	YD 1342	RS 2041 J

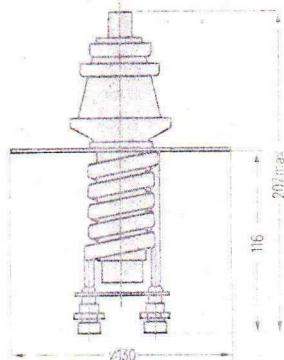
* Type designation as per LIA

Dimensions

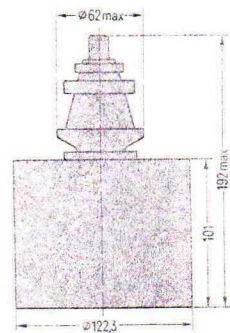
RS 3005 CL



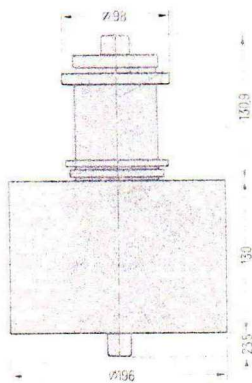
RS 3005 CJ



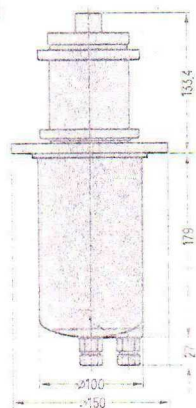
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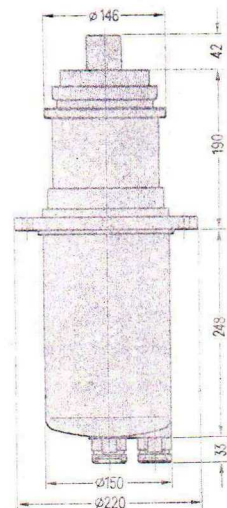
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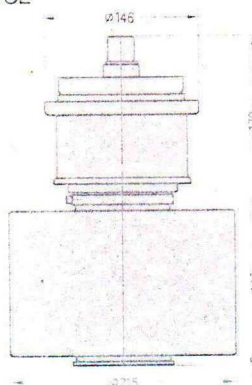
RS 3040 CJ



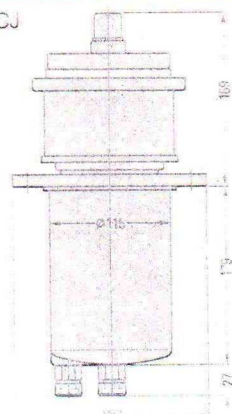
RS 3150 CJ



RS 3060 CL



RS 3060 CJ



All dimensions in mm