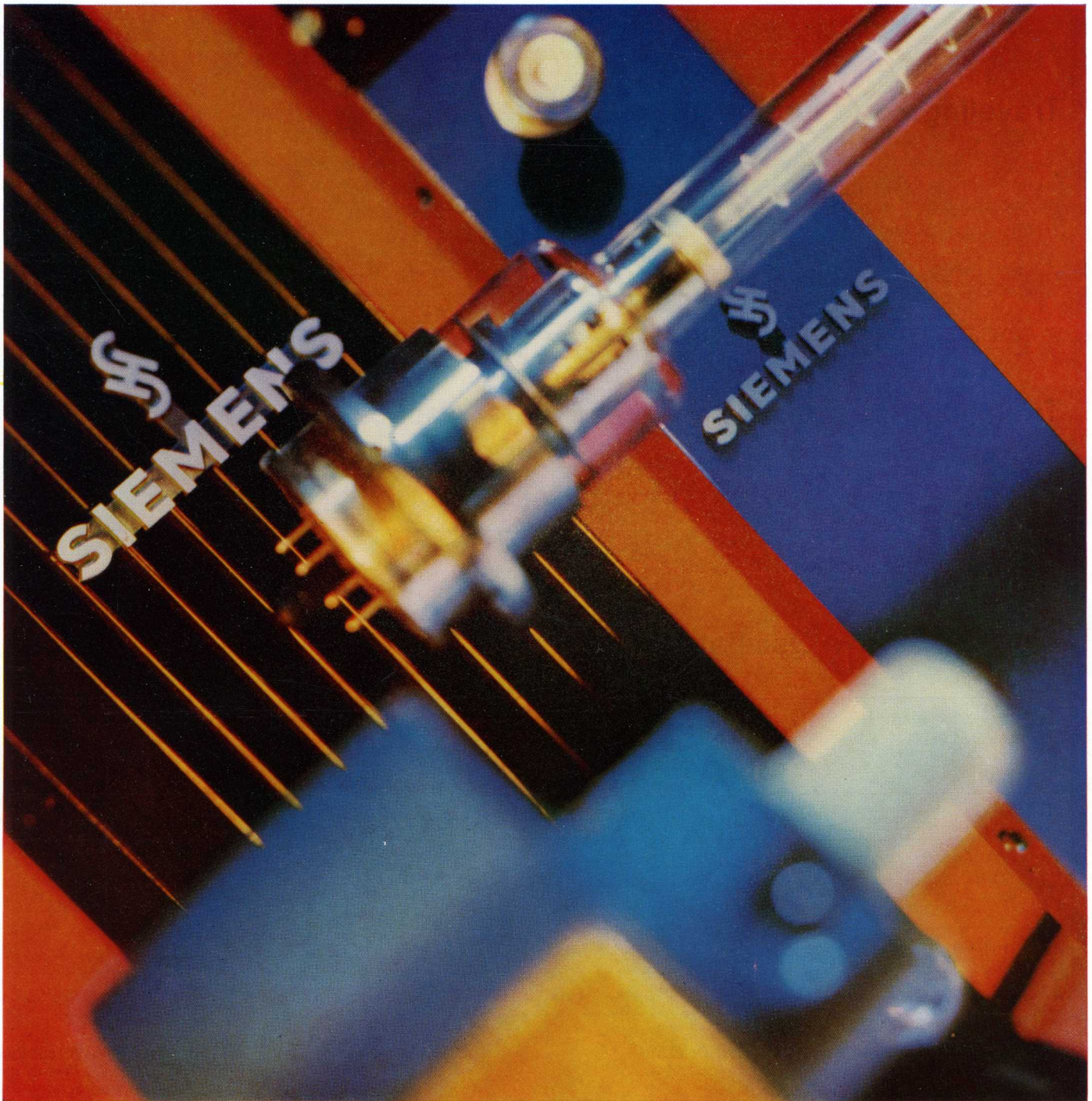




Traveling Wave Tubes Backward Wave Oscillators



Traveling wave tubes of medium power output

Type	Order No.	Frequency range Gc	P _{sat} W	Heating		Typical Operation								Magnet Systems		Cooling	rf connections Remarks	fig.	
				E _f V	I _f A	F Gc	E _h /E _{d1} kV	E _b kV	I _h /I _{d1} mA	I _k mA	G db	P _O W	N _F db	Focusing	Dimensions mm				
RW2	Q41-X3251	1,7 to 2,3	35	6,3~	0,8~	2	1,9	1,6	3	85	40	20	26	periodic permanent- magnet	MRW2a	100×130×384	Conduction	6/16; 7/16; 3,5/9,5; N-connector 3/7	1
RW21	Q41-X3256	2,4 to 2,8	32	6,3~	0,8~	2,6	1,85	1,6	1	85	40	10*	25		MRW21a	100×130×384		6/16; 7/16; 3,5/9,5; N-connector 3/7, TV transmitting Common vision and sound	1
RW42	Q41-X3261	3,6 to 4,2	30	6,3~	0,8~	4	2,4	1,5	2	70	39	16	20		MRW42a	100×120×275		UGF 40 DIN 47 303 Trasition of CMR 229 available	2
RW45	Q41-X3264	4,4 to 5,0	22	6,3~	0,8~	4,7	2,0	1,1	1	65	41	7	< 20		MRW45a	100×120×275		UGF 40 DIN 47 303 Trasition of CMR 187 available	
RW48	Q41-X3267	3,4 to 4,2	15	6,3~	0,8~	4	2,0	1,2	1,5	39	41	11	22		integrated:	60×60×370		Siemens plug 1,3/4,4 (koaxial 50 Ω)	3
RW80 (YH 1110)	Q41-X3255	5,8 to 8,5	30 to 16	6,3~	0,8~	6,0 8,4	2,9 2,8	1,5 1,3	1,5 1,5	50 50	40 37,5	15 10	22 22	periodic permanent- magnet	MRW80a	100×112×264	UGF 70 DIN 47 303 Trasition of CMR 137 available	2	
RW81	Q41-X3259	5,8 to 8,5	35 to 22	6,3~	0,8~	6,0 8,0	2,95 2,85	1,6 1,5	2 2	65 65	41 36	20 15	22 22		MRW81a	100×112×264			
RW85	Q41-X3285	6,4 to 7,1	25	6,3~	0,55~	6,5	3,2	1,5	1,2	62	39	22	22		integrated:	98×90×311	Siemens plug 1,3/4,4 (koaxial, 50 Ω)	4	
RW87	Q41-X3287	5,925 to 6,425	20	6,3~	0,8~	6,2	2,6	1,7	0,5	40	37	10	23		integrated:	56×56×330			
RW1120 C	Q41-X3260	10,7 to 13,2	35	6,3~	0,8~	12	4,2	3	1	65	45	20	23		Cooling case:	416×110×80	R 120 DIN 47 302 19,05×9,53	5	

* Synchron power

Traveling wave tube for TV transposer

Type	Order No.	Frequency range Gc	P _{sat} W	E _f V	I _f A	F Gc	E _h /E _{d1} kV	E _b kV	I _h /I _{d1} mA	I _k mA	G db	P _O W	N _F db	Magnet Systems	Dimensions mm	Cooling	rf connections Remarks	fig.	
YH 1010	Q42-X4610	0,47 to 0,86	700	6,3~	2,6~	0,7	3,4	3,1	5	1000	37	200*		permanent- magnet	MYH1010	200×220×750	forced air cooling	6/16; 7/16; 3,5/9,5; 4,1/9,5; N-connector; C-connector; BNC-connector; Dezifix B	6
YH 1012	Q42-X4612	0,47 to 0,86	700	6,3~	2,6~	0,7	3,4	3,1	5	1000	38	250*			MYH1012	200×220×750			
YH 1020	Q42-X4651	0,47 to 0,86	600	6,3~	2,6~	0,7	3,1	2,9	5	780	35	125*			MYH1020	200×220×750			

* Synchron power

Traveling wave tubes for Tropo-Scatter application

Type	Order No.	Frequency range Gc	P _{sat} W	E _f V	I _f A	F Gc	E _h /E _{d1} kV	E _b kV	I _h /I _{d1} mA	I _k mA	G db	P _O W	N _F db	Magnet Systems	Dimensions mm	Cooling	rf connections Remarks	fig.	
YH 1014	Q42-X4611	0,79 to 0,985	1200	6,3~	2,6~	0,96	3,2	2,9	20	1050	36	200		permanent- magnet	MYH1011	200×220×750	forced air cooling	6/16; 7/16; 3,5/9,5; 4,1/9,5; N-connector; C-connector; BNC-connector; Dezifix B	6

Backward wave Oscillators

Type	Order No.	Frequency range Gc	Heating		Typical Operation				Tuning	Dimensions mm	rf connection	fig.
			E _f V	I _f A	E _h kV	I _h mA	P _O nom mW	P _O min mW				
RWO 5	Q46-X3326	5,8 to 8,5	6,3~	0,9~	0,65 to 2,3	9	100	30	electrical by E _h	64×64×190	N-connector, socket	7
RWO 50	Q46-X3328	33 to 50	6,3~	1~	0,5 to 2,5	13	100	30		159×159×255	waveguide WR 22 flange UG-383/U	8
RWO 75	Q46-X3323	50 to 75	6,3~	1~	0,5 to 2,5	13	40	10		159×159×240	waveguide WR 15 flange UG-385/U	
RWO 110 B	Q46-X3320	75 to 110	6,3~	1~	0,5 to 2,5	13	15	4			waveguide WR 15 flange UG-387/U	
RWO 155	Q46-X3329	110 to 170	6,3~	1~	0,5 to 2,5	13	20	1 (5 mW at 133 to 155 GHz)			waveguide WR 7	

Power supply for all BWO types (excluded RWO 5):
Type RWON 14 Order No. Q87-X302

Types RWO 40, RWO 60, RWO 80 and RWO 110 superseded
by RWO 50, RWO 75 and RWO 110 B.
Available for replacement only.

Special types
on request

The right is reserved to make changes during the
course of further development to improvement.

