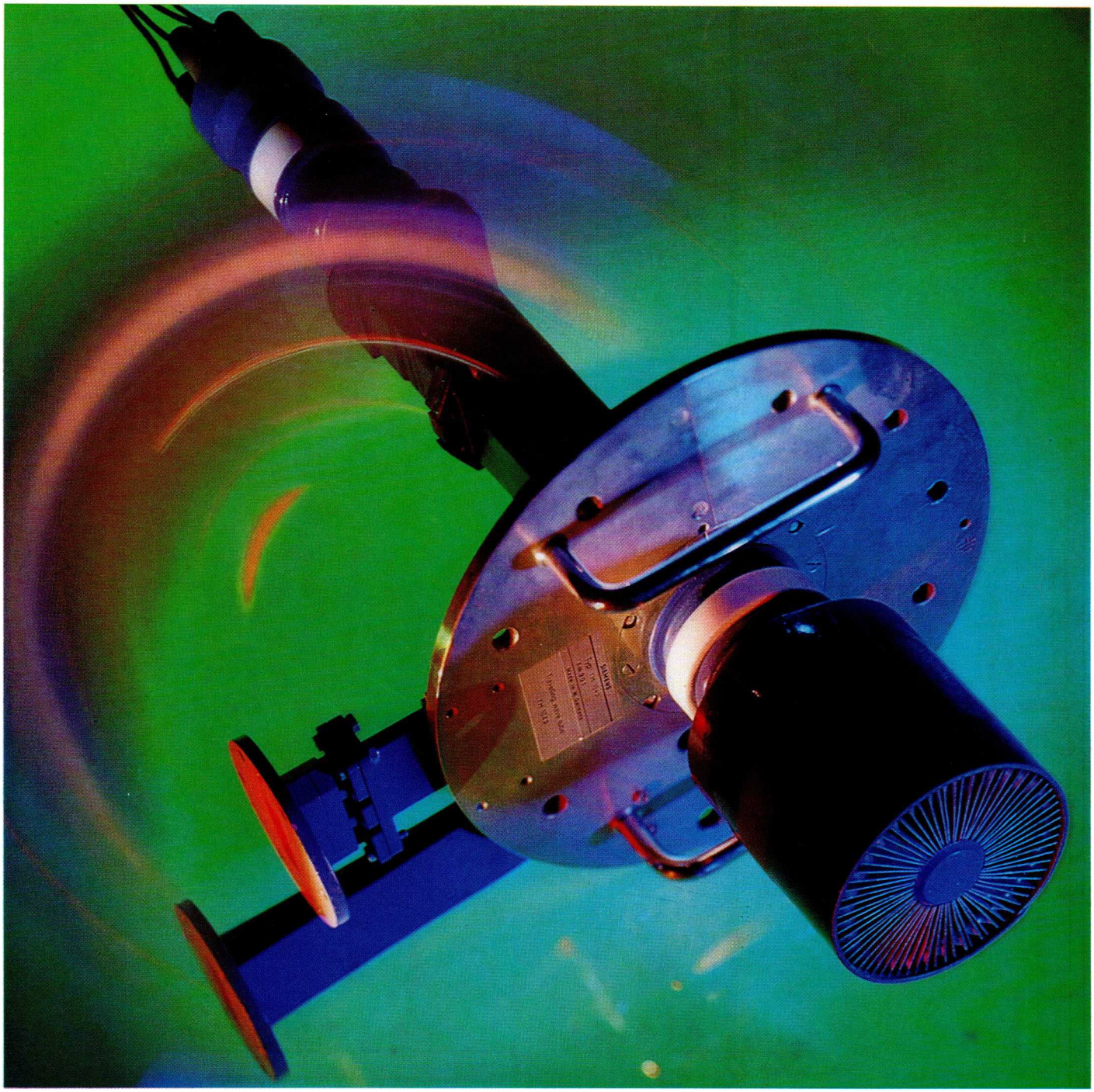
SIEMENS

High Power Microwave Tubes



YH 1041

High power traveling-wave tube for multicarrier operation in the frequency band 5.925 to 6.425 GHz with a CW output power of 3 kW in single carrier operation.

The YH 1041 is easily replaceable in 15 PPM focusing system MYH 1041.

The tube is water-cooled.

The YH 1041 operates in INTELSAT III and INTELSAT IV earth stations in Europe, Asia and South-America.
The YH 1041 is also scheduled to operate in the European Symphonie satellite earth stations.

Order No. Q 42-X 4653

YH 1043

High power, metal-ceramic, traveling-wave tube for satellite communications earth stations operating in the fequency band 5.925 to 6.425 GHz.

In single carrier operation the YH 1043 delivers a minimum CW output power of 1.2 kW.

The YH 1043 is easily replaceable in its electromagnet MS 1043. The delay line is a helix structure with excellent RF characteristics. Tube and magnet system are forced air cooled.

YH 1043 operates in European, African and South-American earth stations.

Order No. Q 42-X 4655

YH 1045

High power traveling-wave tube for satellite communications earth stations operating in the frequency band 5.925 to 6.425 GHz with a saturation power of 12 kW. In single carrier operation the tube delivers a CW power of 5 kW.

The YH 1045 is easily replaceable in its electromagnet MS 1045.

Tube and solenoid are water cooled.

The YH 1045 operates in European and Asian satellite earth stations.

Order No. Q 42-X 4657

YH 1046

Similar to YH 1045, however with 8 kW CW powers and higher gain.

Data

Frequency range	5.925 to 6.425 GHz
Saturation power	5 kW
CW power	3 kW
Gain min	29 dB
max	43 dB
Third order intermodulation products measure with two carriers each of 2 × 500 W spaced 5 MHz apart	−21 dB
Heater voltage	6.5 V
Delay line voltage	17 kV
Delay line current	160 mA
Collector voltage	11 kV
Collector current	1.5 A

Data

Frequency range	5.925 to 6.425 GHz
Output power	1.2 kW
Gain (multicarrier operation)	33 dB
Gain slope	2 dB
Third order intermodulation products measure with two carriers each of 2 × 75 W spaced 5 MHz apart	−24 dB
Heater voltage	6 V
Helix voltage	9 kV
Max. helix current	20 mA
Collector voltage	7 kV
Collector current	0.85 A

Data

Frequency range	5.925 to 6.425 GHz
Saturation power	12 kW
CW power	5 kW
Gain (multicarrier operation)	35 dB
Third order intermodulation products measure with two carriers each of 2 × 500 W spaced 5 MHz apart	30 dB
Heater voltage	5 V
Delay line voltage	19 kV
Delay line current	120 mA
Collector voltage	14 kV
Collector current	3 A

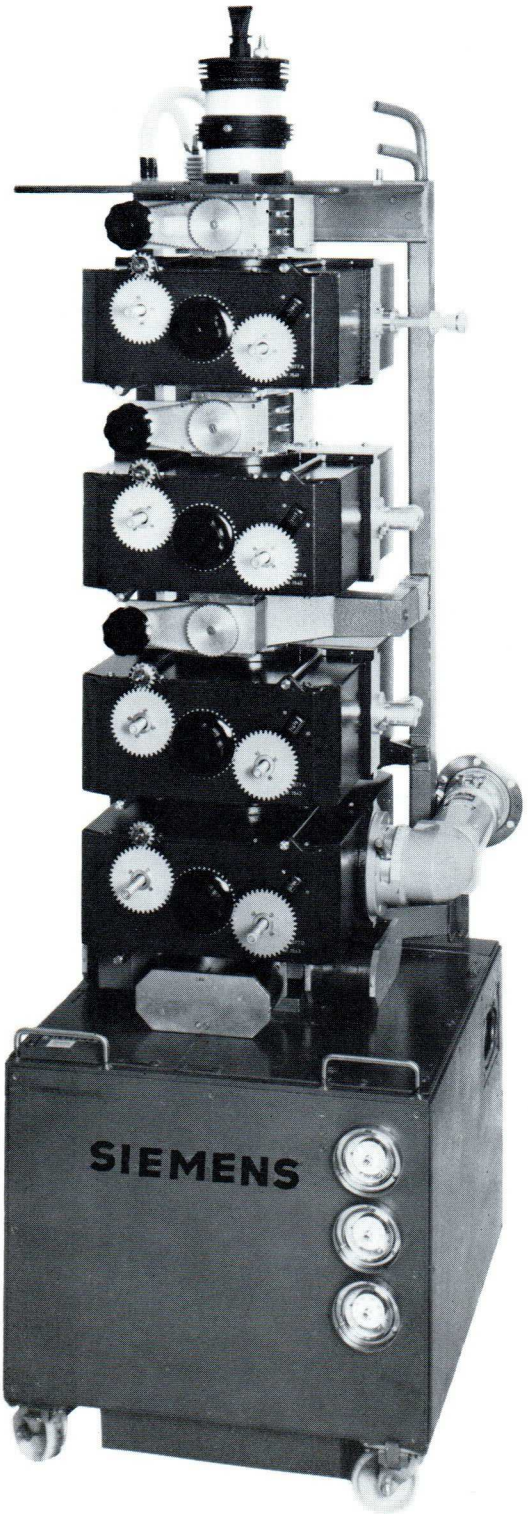
YK 1151

High power four-cavity, PM focused klystron and external resonators for TV-transmitters operating in the frequency band 470 to 860 MHz.

YK 1151, all aircooled.

The klystron operates in visual power amplifiers with 23 kW peak sync. output power, in aural power amplifiers and high power translaters.

Order No. Q 44-X 4658



Data

Frequency range	470 to 860 MHz
Peak sync. power	23 kW
Input power	2 W
Efficiency	40 %
Sync. compression	40/25
Residual sideband	−25 dB
Heater voltage	7.8 V
Beam voltage	25 kV
Beam current	3.6 A

SIEMENS AKTIENGESELLSCHAFT

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