

**WVS-TECHNOLOGY****WVS-TECHNOLOGY****WALTER V. STEINFELD, DIPL.-ING.**

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AM Tetrode**RS2054SK**

Output power In MW and SW transmitter with frequency of 30MHz: 105 KW
SWITCHING TUBE IN PDM TRANSMITTERS WITH 100 KW

GENERAL CHARACTERISTICS

Cathode	Thoriated tungsten
Heating	Direct
Filament voltage	15 V
Filament current	180 A
Interelectrode Capacitances, approx.:	
Cathode-control grid	170 pF
Cathode-screen grid	16 pF
Cathode-anode	0.5 pF
Control grid-screen grid	300 pF
Control grid-anode	3.0 pF
Screen grid-anode	70 pF
Transconductance ($I_a=5A$, $U_{g2}=1kV$, $U_a=4kV$)	90 mA/V
Internal amplification factor ($I_a=5A$, $U_{g2}=800-1200V$, $U_a=4kV$)	4.5
Operating position	Vertical, anode up or down
Weight approx	24 kg
Dimensions	See page 95
Anode cooling(1)	Vapour cooled
Water flow, min.	60L/min
Corresponding pressure drop	9.5×10^4 Pa
Temperature at water outlet, max.	100°C
Cooling at the sealing between electrode terminal and ceramic	Forced air
Temperature tube surface, max.	220°C
(1) Values for cooling given for maximum anode dissipation	

**MAXIMUM RATINGS**

Frequency	30 MHz
Anode voltage	15kV
Direct cathode current	20 A
Control-grid voltage	-1 kV
Screen-grid voltage	1.6 kV
Anode dissipation	120 kW
Control-grid dissipation	1 kW
Screen-grid dissipation	3 kW

TYPICAL OPERATION**Class C carrier conditions**

Frequency	≤ 30 MHz
Carrier output power	105 kW
Anode voltage	11.2 kV
Control-grid bias voltage	-250 V
Screen-grid voltage	800 V
Anode current	10.8 A
Control-grid current	1.1 A
Screen-grid current	1.0 A