

BROADCAST
UHF TV

YL 1057

UHF tetrode

1100 W

- Image and sound amplification for TV transmitters and translators, band IV / V
- High gain
- Air cooled



THALES



YL 1057

The YL 1057 tetrode is designed for power amplifiers, in particular for the final stage of TV image and sound transmitters as well as TV translators.

This tetrode features coaxial metal-ceramic technology and is cooled by forced air.

Characterized by a remarkably high gain, it operates at frequencies up to 1215 MHz.

This product is designed, developed and manufactured at an ISO 9001 registered production site.

General characteristics

Cathode		oxide
Heating (1)		indirect, dc or single phase ac
Interelectrodes capacitances, approx. :		
• cathode - control grid	42	pF
• control grid - screen grid	60	pF
• screen grid - anode	8	pF
Operating position		any
Weight, approx.	1.1	kg
Dimensions :		
• diameter	95	mm
• height	112	mm
Anode cooling (2) :		
• air flow, min.	1.8	m ³ /mn
• air inlet pressure, ΔP	2.2	mbar
• inlet air temperature, max.	45	°C

(1) Thales Electron Devices defines the operating voltage according to each particular situation. As an indication for equipment design purposes only, a heater voltage of 3.8 V produces a heating current of 19.5 A.

(2) Values for an anode dissipation of 2 kW.

Maximum ratings

Frequency	1215	MHz
Anode dc voltage	3.8	kV
Anode dc current	1.2	A
Anode dissipation	2.2	kW
Control grid dissipation	5	W
Screen grid dissipation	30	W

Typical operation

Common amplification

Frequency	470 - 860	MHz
Peak-of-sync output power	1100	W
-1 dB bandwidth	8.5	MHz
Intermodulation products	-50	dB
Gain (average)	17	dB
Anode dc voltage	3.4	kV
Screen grid dc voltage	600	V
Anode dc current, with signal	750	mA
Screen grid dc current	15	mA
Anode current at zero signal	500	mA

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For further information, please contact:

THALES ELECTRON DEVICES

2 bis, rue Latécoère - 78941 Vélizy Cedex - France
Tel: + 33 1 30 70 35 00 - Fax: + 33 1 30 70 35 35
www.thalesgroup.com/electronddevices