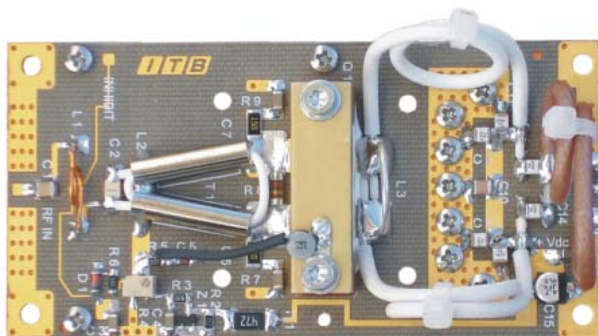


Developed and designed for Broadcast applications (FM transposers and transmitters), this amplifier incorporates micro strip and MOSFET technology to guarantee 700, 1000, 1400 and above output power if appropriately coupled. Its high efficiency allows the usage of reduced size radiators (low dissipation)

- 86 ÷ 110 MHz
- 48 ÷ 50 Volt
- Internal Bias
- Input / output 50 Ω
- P_{out} : 350 W min
- Gain : ≥ 17 dB
- Class A,AB or C (adjustable)
- ALC input , inhibit
- 4mm thick Copper Base
- Teflon laminated pc board



Dimension: (L x W x H) 100 x 50 x 30 mm

ABSOLUTE MAXIMUM RATING (T case = 25 °C)

Symbol		Value	Unit
V _d	Drain Voltage Supply	50	V dc
I _d	Supply Current (total)	14	A dc
VSWR	Load Mismatch (all phase angles, T _c = 40°C @ 350 W)	5 : 1	
T _{bp}	Operating Base Plate Temperature	50	°C
T _{stg}	Storage Temperature Range	- 20 ÷ + 70	°C

ELECTRICAL SPECIFICATIONS (T case = 40 °C, 50 Ω load, Vs = 49 V, Bias = 200 mA total)

Characteristics	Min.	Typ.	Max	Unit
Operating Frequency Range	86		110	MHz
Input Power	2,5	3	4,5	Watt
Power Gain	17	19	21	dB
Output Power (fundamental)	370		380	Watt
Drain Efficiency (load 50 Ω)	73	75	78	%
Input VSWR	≤1.4:1	≤1.5:1	≤1.7:1	
Insertion Phase Variation (Unit to Unit)	±2	±3	±4	Degrees
Power Gain Variation (Unit to Unit)		±1		dB
F2 Second Harmonic	- 40	- 45	- 50	dB
F3 Third Harmonic	- 18	- 20	- 22	dB

TYPICALLY OPERATION Vs = 49 V , Bias = 200mA, Copper Base Temperature = 30°C

Frequency MHz	Power In Watt	Power output Watt	IA	F2 Second Harmonic	F3 Third Harmonic	Efficiency
88	2,9	350 carrier	10.3	≤ - 40 dBc	- 18	≥ 70%
98	2.95	350 carrier	10.0	≤ - 45 dBc	- 18	≥ 71 %
108	4.2	350 carrier	10.3	≤ - 46 dBc	- 18	≥ 70 %

* ITB reserve the right to make changes to the product(s) or information contained herein without notice

Italab Communications
 Via Casale 3/a , 20144 Milano (Italy)
 Phone: 0039 02 90389417
 mail: info@italab.it
 website: www.italab.it