

new PJ300C-LCD

Preliminary Version

Compact Broadband Family



FM Mosfet Amplifier 87.5÷108

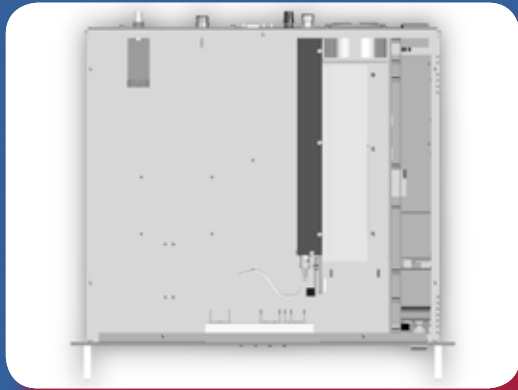
PJ300C-LCD

FEATURES

- Extra-Compact Quality FM Solid State Amplifier
- Powerfully and Low-Cost
- High performance amplifier, compact, reliable and easy maintenance.
- Broadcast quality at a value price, can be used as drivers for medium power FM stations or as stand-alone applications.
- Compact, non-deformable and light, 2HE rack unit, stainless steel chassis.
- Safe operation in any working conditions.
- Completely microprocessor-controlled easy to program from the menu or via RS232, all main parameters can be read on the LCD display.
- Possibility to be monitored through all RVR telemetry systems to guarantee simple remote control of the operating parameters.
- Maximum operating reliability designed to allow an easy maintenance.
- Universal multi-voltage power supply from 80 to 260 V.
- Modern technology that complies with all EC, FCC and CCIR standards.

Technical Specifications

Preliminary Version



				PJ300C-LCD			
Parameters	Conditions	U.M.				Note	
GENERALS							
Frequency range		MHz		87.5 - 108			
Rated output power		W		300			
Input power for rated output		W		10			
Power supply type				Mono phase			
AC Supply Voltage	Mains input voltage range	VAC		230 ±15%			
DC Supply Voltage	CPU backup input Voltage	VDC					
AC Apparent Power Consumption		VA		540		(*) equipment in 18W input compression	
Active Power Consumption		W		500		(*) equipment in 18W input compression	
RF Fan active Power consumption		W		13			
RF module efficiency		%		65		(*) equipment in 18W input compression	
Overall efficiency		%		58		(*) equipment in 18W input compression	
Input device				4 pushbutton			
Display				Alphanumerical LCD - 2 x 16			
Overall Physical Dimensions	Front panel width	mm		483			
	Front panel height	HE		2			
	Overall depth	mm		370			
Ambient working temperature		°C		0 to + 50 (operational -10)			
Spurious & harmonic suppression		dBc		>70 (75 typical)			Meets or exceeds all FCC and CCIR rules
RF INPUT							
RF Input	Connector			N type			
	Impedance	Ohm		50			
Driver power for rated output		W		11			
Max input power before protection		W		20			
RF OUTPUTS							
RF Output	Connector			N female type			
	Impedance	Ohm		50			
RF Monitor	Connector			BNC			
	Impedance	Ohm		50			
Output Level		dB		13 +\-6 dBm			Referred to the RF output
AUXILIARY CONNECTIONS							
Interlock Input	Connector			BNC			For remote power inhibition (short is RF off)
Interlock Output	Connector			BNC			For remote power inhibition (short is RF off)
RS232 Serial Interface	Connector						
Service	Connector			DB9 F			Factory reserved for firmware program
I ² Cbus	Connector						
Modem	Connector						
RS485 Serial Interface	Connector						
Remote Interface	Connector			DB15F			IIC + 5 analog / digital inputs, 5 analog / digital outputs
Telemetry Interface	Connector						
POWER REQUIREMENTS							
AC Power Input	AC Supply Voltage	VAC		80 ÷ 260 (*)			(*) Full range (***) Internal switch
	AC Apparent Power Consumption	VA		540			
	Active Power Consumption	W		500			
	Power Factor			0,93			
DC Power Input	Connector			VDE male			
	DC Supply Voltage	VDC					
DC Current	ADC						
FUSES							
On Mains				1 External fuse F 8 T - 5x20 mm			
On services							
On PA Supply							
On Aux VDE socket							
MECHANICAL DIMENSIONS							
Physical Dimensions	Front panel width	mm		483 (19")			19" EIA rack
	Front panel height	mm		88(xxx")			
	Overall depth	mm		390			
	Chassis depth	mm		370 (xxxx)			
Weigh		kg		about 6			
OPTIONS							
Telemetry		code					
115 Vac		code					
TELEMETRY / TELECONTROL							
Remote connector inputs	Analogical level			FWD fold			For P.A. A.G.C. purpose, min 0,5 Vcc
	Analogical level			REF fold			For P.A. A.G.C. purpose, min 0,5 Vcc
	pulse			RF ON			
	pulse			RF OFF			
Remote connector outputs	ON/OFF level			Interlock			for remote power inhibition (short is RF off)
	Analogical level			FWD			max 5 Vcc
	Analogical level			REF			max 5 Vcc
	Analogical level			VPA			max 5 Vcc
	Analogical level			IPA			max 5 Vcc
	ON / OFF level			Power Good			open collector
Remote connector others				I2Cbus			
TELEMETRY-TELECONTROL SW							
Telecon				Yes, via TLC300 or TLC2000			
VARIOUS							
Cooling type				Forced, with internal fan			
Potenza dissipata in calore		W		150			
Acoustic Noise		dBA		<75			Leq 3 min @ 1 m
STANDARD COMPLIANCE							
Safety				EN60215:1989			
EMC				EN 301 489-11 V1, 2, 1			
Spectrum Optimization							

These are general specifications. They show typical values and are subject to change without notice.