

R V R PJ10K-KLC Broadcast Systems FM Amplifiers PJ Modular Liquid Cooled Owner's Manual

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**FM AMPLIFIERS
K-KLC SERIES
MODULAR LIQUID COOLED
SERIES
PJ-MODULAR LIQUID COOLED**

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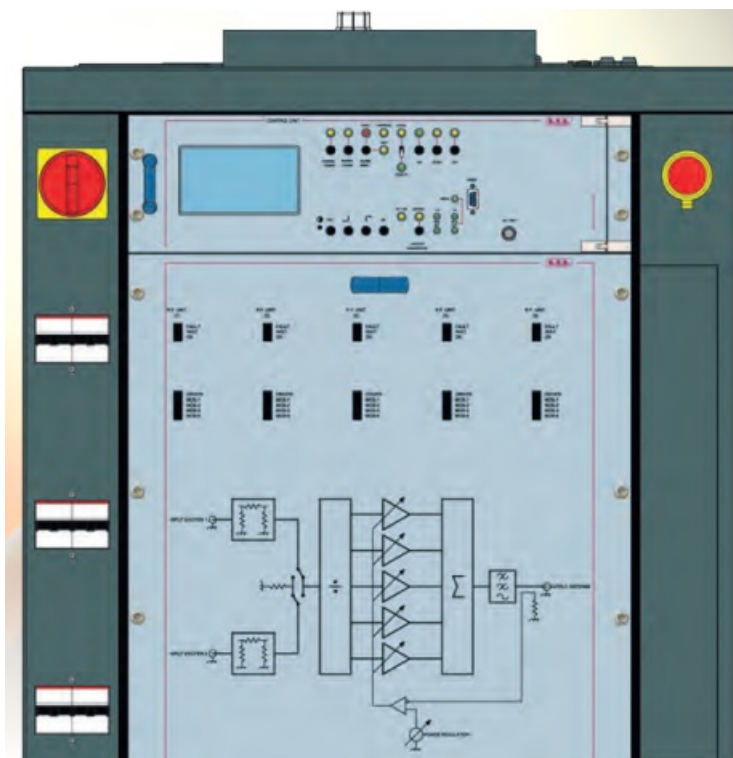
PJ10K-KLC Broadcast Systems FM Amplifiers PJ Modular Liquid Cooled

With the family of RVR's liquid transmitters based on the U-KLC series, is possible to realize compact equipments up to 50.000W, with high energy savings thanks to the use of high efficiency pumps and no forcing ventilation. The Cooling system is with low pressure circuit and double pump in automatic switching and diagnostics.

MODELS

PJ10K-KLC
PJ25K-KLC

PJ50K-KLC
PJ15K-KLC
PJ30K-KLC
PJ20K-KLC
PJ40K-KLC



- Scalable Solution from 10.000W to 50.000W.
- Best transmission quality, at the best market place.
- The most flexible combinations available for high reliability and redundancy
- N+1 Configuration available for 24/7 business continuity.
- Tunable over the entire FM band 87.5 – 108 MHz, without tuning. Other bands on request.
- WEB, SNMP2, GSM, Serial remote controls (option).
- Full compliance with EC, FCC and CCIR standards.

Amplifiers:

- Single amplifier's units: from 10.000W to 50.000W.
- High-gain with very low input drive power requirement.
- Adjustable power output from 10 to 100 %.
- Exclusive "Long Life FET" technology for mosfet life extension.

ORDERING INFORMATION

Model	Description
PJ10K-KLC	10.000W Liquid cooled system.
PJ15K-KLC	15.000W Liquid cooled system.
PJ20K-KLC	20.000W Liquid cooled system.
PJ25K-KLC	25.000W Liquid cooled system.
PJ30K-KLC	30.000W Liquid cooled system.
PJ40K-KLC	40.000W Liquid cooled system.
PJ50K-KLC	50.000W Liquid cooled system.



PJ20K-KLC

20.000W Liquid cooled system.



<https://www.rvr.it/en/products/compact-amplifiers/pj-modular-liquid-cooled-series/pj-k-klc/pj20k-klc/>



PJ40K-KLC

40.000W Liquid cooled system.



<https://www.rvr.it/en/products/compact-amplifiers/pj-modular-liquid-cooled-series/finio-a-50-000w/pj40-000k-klc/>



PJ50K-KLC

50.000W Liquid cooled system.



<https://www.rvr.it/en/products/compact-amplifiers/pj-modular-liquid-cooled-series/fino-a-50-000w/pj50k-klc/>

PJ15K-KLC

Parameters	U.M.	Value	Notes
GENERALS			
RF Output power	kW	15	
Frequency range		87.5 – 108 MHz programmable in 1,10 or 1000 KHz steps	
Frequency stability	ppm	±1	
Class of emission		180KF8E	
Stereo transmission		Acc. To ITU-R / Rec. 450 (Pilot tone)	
RF output impedance		50 Ω, Unbalanced	
RF Output connector		3-1/8" EIA Flange	
VSWR		1.41:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio		≥ 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis and without FM modulation	
Synchronous AM S/N Ratio		≥ 55 dB, reference to 100% AM modulation at 400 Hz, 50 μs Pre-emphasis with FM modulation at 75 KHz of deviation	
Harmonics suppression and Spurious	dB	Typically 85	
Overall efficiency	%	Typically 70/72	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	

PJ20K-KLC

Parameters	U.M.	Value	Notes
GENERALS			
RF Output power	kW	20	
Frequency range		87.5 – 108 MHz programmable in 1,10 or 1000 KHz steps	
Frequency stability	ppm	±1	
Class of emission		180KF8E	
Stereo transmission		Acc. To ITU-R / Rec. 450 (Pilot tone)	
RF output impedance		50 Ω, Unbalanced	
RF Output connector		3-1/8" EIA Flange	
VSWR		1.41:1 with automatic fold-back at higher VSWR	
Asynchronous AM S/N Ratio		≥ 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis and	d without FM modulation
Synchronous AM S/N Ratio		≥ 55 dB, reference to 100% AM modulation at 400 Hz, 50 μs Pre-emphasis with	FM modulation at 75 KHz of deviation
Harmonics suppression and Spurious	dB	Typically 85	
Overall efficiency	%	Typically 70/72	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice. These are general specifications. They show typical values and are subject to change without notice.



<https://www.rvr.it>



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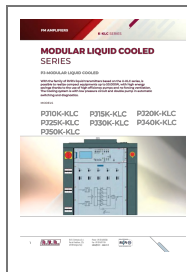
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Documents / Resources



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References

- [R.V.R. Elettronica - Broadcast Systems](#)