MODULAR LIQUID COOLED SERIES

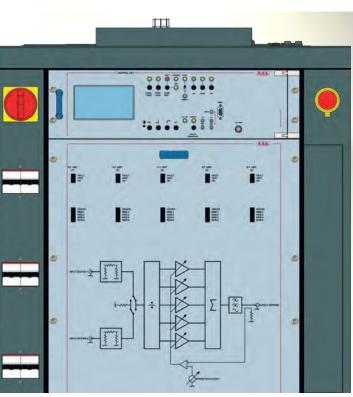
TX-MODULAR LIQUID COOLED

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

TX10K-KLC TX25K-KLC TX50K-KLC

TX15K-KLC TX20K-KLC TX30K-KLC TX40K-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 unis: 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.

Exciters:

- BLUES, TEX, PTX Series depending on client's requirements and budget.
- Single and Dual Drive with automatic or manual changeover.
- Fold-back control for effective "VSRW" protection.
- Including IAMLC: Intelligent Automatic Modulation Level Control.

ORDERING INFORMATION	
Model	Description
TX10K-KLC	10.000W Liquid cooled system.
TX15K-KLC	15.000W Liquid cooled system.
TX20K-KLC	20.000W Liquid cooled system.
TX25K-KLC	25.000W Liquid cooled system.
TX30K-KLC	30.000W Liquid cooled system.
TX40K-KLC	40.000W Liquid cooled system.
TX50K-KLC	50.000W Liquid cooled system.





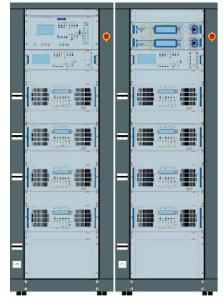
K-KLC SERIES





20.000W Liquid cooled system.





TX40K-KLC

40.000W Liquid cooled system.





TX50K-KLC

50.000W Liquid cooled system.







K-KLC SERIES

TX15K-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	
Nominal frequency deviation		±75 KHz (peak)	
Maximum frequency deviation		±100 KHz (peak)	
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	
Frequency control		Synthesizer µ processor control	
Modulation capability		±150 KHz	
Modulation mode		Mono, Stereo, Multiplex, SCA, RDS, DARC, Aux	
Pre-emphasis Mode		0/50 (CCIR) µs, 75 (FCC) µs	
Asynchronous AM S/N Ratio		> 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis a	nd without FM modulation
Synchronous AM S/N Ratio		≥ 55 dB, reference to 100% AM modulation at 400 Hz, 50 µs Pre-emphasis wi	th 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	
Max Frequency Tolerance		As per ITU (R)	
Analogue Input Level ±75 Khz (peak) deviation		-6 dBu - +6 dBu at 1 Khz, 0 dBu	
Digital Input Level ±75 Khz (peak) deviation		-20.0 dBFS – 0 dBFS (adjustable) at 1 Khz	
MONO OPERATION		0010 (1 : 10010) 05/41 1 : 1 (0011 15/41 1 1)	
S/N ratio	%	> 90dB (typical 92dB), 75KHz deviation (30 Hz to 15 KHz base band) rms, unv	eignted
Total Harmonic Distortion + Noise	%	Better than 0.15	
Inter Modulation Distortion SMPTE		Better than 0.20% (60 Hz / 7 KHz, 4:1, +4 ±0.2dB (30Hz – 15Khz)	
Frequency Response		I NO	
Audio Input Impedance MPX OPERATION		600 Ω balanced or 10 kΩ unbalanced	
S/N ratio		>90 dB, 75 KHz deviation rmd, unweight	
Total Harmonic Distortion + Noise	%	<0.02%	
Inter Modulation Distortion SMPTE	70	<0.02% 60 hz / 7 khz. 4:1. +4dbu	
Frequency Response		±0.3dB. 30 Hz to 100 KHz	
Transient Intermodulation Distortion		0.03%, 2.96 KHz square way end 14 KHzsine waye	
STEREO OPERATION		1,	
Audio Input Impedance		2 K ohm or more	
Stereo FM S/N Ratio unweighted		>84 dB, 30 Hz to 15 KHz deviation (L or R), rms	
Stereo Separation ((Sine wave))		≥ 60 dB (30 Hz – 15 KHz)	
Linear Cross Talk		Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz)	
Non-linear Cross Talk		Better than 50 dB, referred to 100% modulation	
Total Harmonic Distortion + Noise (L or R)		<0.02%, 60 Hz / 7 KHz, 4:1, +4dBu	
Inter Modulation Distortion SMPTE (L or R)		±0.2 dB. 30 Hz – 15 Khz	
	l	110 Ω	
Digital Input Impedance		110 11	





K-KLC SERIES

TX20K-KLC

Parameters				
RF Output power NW		U.M.	Value	Notes
Frequency range	GENERALS			
Fequency stability	RF Output power	kW	20	
Maximum frequency deviation	Frequency range		87.5 – 108 MHz programmable in 1,10 or 1000 KHz steps	
Auxiliarity Fequency deviation 1808/REC 1809/REC 1809/RE	Frequency stability	ppm	±1	
180K 9E	Nominal frequency deviation		±75 KHz (peak)	
Acc. To TIL-R / Rec. 450 (Pilot tone)	Maximum frequency deviation		±100 KHz (peak)	
RF output impedance So D, Unbalanced RF output connector 3-1/8" EM Flange 3-1/8	Class of emission		180KF8E	
RF output connector Symbosizer processor control Symbosizer processor processor control Symbosizer processor processor processor processor processor Symbosizer processor processor Symbosizer processor Symbosizer processor Symbosizer processor Symbosizer processor Symbosizer Symbosizer processor Symbosizer processor Symbosizer	Stereo transmission		Acc. To ITU-R / Rec. 450 (Pilot tone)	
1.4.1-1 with automatic fold-back at higher YSWR	RF output impedance		50 Ω, Unbalanced	
Synthesizer µ processor control Modulation capability ±150 kHz	RF output connector	T	3-1/8" EIA Flange	
Modulation capability	VSWR		1.41:1 with automatic fold-back at higher VSWR	
Monu, Stereo, Multiplex, SCA, RDS, DARC, Aux	Frequency control		Synthesizer µ processor control	
Pre-emphasis Mode	Modulation capability		1 11	
Asynchronous AM S/N Ratio > 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis and without FM modulation at 75 KHz of deviation Typically 7817	Modulation mode		Mono, Stereo, Multiplex, SCA, RDS, DARC, Aux	
Asynchronous AM S/N Ratio > 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis and without FM modulation at 75 KHz of deviation Ypically 85	Pre-emphasis Mode		0/50 (CCIR) us. 75 (FCC) us	
Harmonics suppression and Spurious dB	Asynchronous AM S/N Ratio			nd without FM modulation
Harmonics suppression and Spurious MB Typically 85	Synchronous AM S/N Ratio		≥ 55 dB, reference to 100% AM modulation at 400 Hz, 50 µs Pre-emphasis wi	th FM modulation at 75 KHz of deviation
RF Harmonics Exceeds ETS/CCIR/FCC requirements RF Spurious Exceeds ETS/CCIR/FCC requirements Max Frequency Tolerance Asper ITU (R) Analogue Input Level ±75 Khz (peak) deviation Jojital Input Input Level ±75 Khz (peak) deviation Jojital Input Inp	Harmonics suppression and Spurious	dB		
RF Spurious Max Frequency Tolerance As per ITU (R) Analogue Input Level ±75 Khz (peak) deviation Digital Input Level ±75 Khz (peak) deviation -0.0 dBFS - 0 dBFS (adjustable) at 1 Khz MONO OPERATION S/N ratio Total Harmonic Distortion + Noise Mex Frequency Response 4.0.2dB (30Hz - 15Khz) Audio Input Impedance MPX OPERATION S/N ratio Solverance -0.00 dBFS - 0 dBFS (adjustable) at 1 Khz Monoton + Noise Better than 0.120% (60Hz / 7 KHz, 4·1, +4 Better than 0.120% (60Hz / 7 KHz, 4·1, +4 Frequency Response 4.0.2dB (30Hz - 15Khz) Audio Input Impedance MPX OPERATION Solverance -0.00 dB, 75 KHz deviation rmd, unweight -0.01 kHz deviation rmd, unweight -0.02% 60 hz / 7 khz, 4·1, +4dbu Frequency Response 4.0.3dB, 30 Hz to 100 KHz Audio Input Impedance -0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION Audio Input Impedance -0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION Audio Input Impedance -0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION Audio Input Impedance -0.03%, 2.96 KHz deviation (Lor R), rms Stereo Separation ((Sine wave)) -0.00 dB dB dB referred to 100% modulation Stereo Separation ((Sine wave)) -0.00 dB dB dB, referred to 100% modulation Total Harmonic Distortion + Noise (Lor R) -0.02%, 6.0 Hz / 7 KHz, 4·1, +4dbu -0.02%, 6.0 Hz / 7 KHz, 4·1, +4dbu -0.00%, 6.0 Hz / 7 KHz, 4·1, +4dbu	Overall efficiency	%	Typically 70/72	
Max Frequency Toterance	RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
Analogue Input Level ±75 Khz (peak) deviation -6 dBu - +6 dBu at 1 Khz, 0 dBu	RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Digital Input Level ±75 Khz (peak) deviation -20.0 dBFS - 0 dBFS (adjustable) at 1 Khz	Max Frequency Tolerance		As per ITU (R)	
MONO OPERATION S/N ratio > 90dB (typical 92dB), 75KHz deviation (30 Hz to 15 KHz base band) rms, unweighted Total Harmonic Distortion + Noise % Better than 0.15 Inter Modulation Distortion SMPTE Better than 0.20% (60 Hz / 7 KHz, 4:1, +4 Frequency Response ±0.2dB (30Hz − 15KHz) Audio Input Impedance 600 0 balanced or 10 kΩ unbalanced MPX OPERATION >90 dB, 75 KHz deviation rmd, unweight S/N ratio >90 dB, 75 KHz deviation rmd, unweight Total Harmonic Distortion + Noise % Inter Modulation Distortion SMPTE <0.02% 60 hz / 7 khz, 4:1, +4dbu Frequency Response ±0.3dB, 30 Hz to 100 KHz Audio Input Impedance 0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION 2 K ohm or more Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ((Sine wave)) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) ±0.2 dB, 30 Hz − 15 Khz Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz	Analogue Input Level ±75 Khz (peak) deviation		-6 dBu - +6 dBu at 1 Khz, 0 dBu	
S/N ratio > 90dB (typical 92dB), 75KHz deviation (30 Hz to 15 KHz base band) rms, unweighted	Digital Input Level ±75 Khz (peak) deviation		-20.0 dBFS – 0 dBFS (adjustable) at 1 Khz	
Inter Modulation Distortion SMPTE Frequency Response 4.0.2dB (30Hz - 15KHz) Audio Input Impedance MPX OPERATION S/N ratio Total Harmonic Distortion + Noise Frequency Response 4.0.02 Inter Modulation Distortion SMPTE Frequency Response 4.0.02 (4.1, +4dbu) Frequency Response 4.0.3dB, 30 Hz to 100 KHz Audio Input Impedance STEREO OPERATION Audio Input Impedance Stereo FM S/N Ratio unweighted Stereo Separation ((Sine wave)) Linear Cross Talk Better than 50 dB, referred to 100% modulation Folial Harmonic Distortion + Noise (L or R) Audio Input Inpedance Total Harmonic Distortion + Noise (L or R) Audio Input Inpedance Audio Input Impedance Stereo FM S/N Ratio unweighted Audio Input Impedance Stereo Separation ((Sine wave)) Audio Input Impedance Stereo Separation (Sine wave) Audio Input Impedance Stereo OPERATION Audio Input Impeda			> 90dB (typical 92dB), 75KHz deviation (30 Hz to 15 KHz base band) rms, unw	eighted
Inter Modulation Distortion SMPTE Better than 0.20% (60 Hz / 7 KHz, 4·1, +4 Frequency Response ±0.2dB (30Hz − 15Khz) Audio Input Impedance 600 0 balanced or 10 kΩ unbalanced MPX OPERATION S/N ratio S/N ratio >90 dB, 75 KHz deviation rmd, unweight Total Harmonic Distortion + Noise % Inter Modulation Distortion SMPTE <0.02% 60 hz / 7 khz, 4:1, +4dbu	Total Harmonic Distortion + Noise	%	Better than 0.15	
Audio Input Impedance MPX OPERATION S/N ratio Total Harmonic Distortion + Noise ### Noise % < 0.02	Inter Modulation Distortion SMPTE		Better than 0.20% (60 Hz / 7 KHz, 4:1, +4	
Audio Input Impedance MPX OPERATION S/N ratio >90 dB, 75 KHz deviation rmd, unweight 70tal Harmonic Distortion + Noise % <pre></pre>	Frequency Response		±0.2dB (30Hz – 15Khz)	
S/N ratio >90 dB, 75 KHz deviation rmd, unweight Total Harmonic Distortion + Noise % <pre></pre>			600 Ω balanced or 10 kΩ unbalanced	
Total Harmonic Distortion + Noise % < 0.02 Inter Modulation Distortion SMPTE < 0.02% 60 hz / 7 khz, 4:1, +4dbu Frequency Response ±0.3dB, 30 Hz to 100 KHz Audio Input Impedance 0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION Audio Input Impedance 2 K ohm or more Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ([Sine wave]) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) ±0.2 dB, 30 Hz − 15 Khz Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz Stereo Separation (Sine wave) ±0.2 dB, 30 Hz − 15 Khz Stereo Sep	MPX OPERATION		'	
Inter Modulation Distortion SMPTE <0.02% 60 hz / 7 khz, 4:1, +4dbu Frequency Response ±0.3dB, 30 Hz to 100 KHz Audio Input Impedance 0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION Validio Input Impedance Audio Input Impedance 2 K ohm or more Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ([Sine wave]) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) <0.02%, 60 Hz / 7 KHz, 4:1, +4dBu Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz	S/N ratio		>90 dB, 75 KHz deviation rmd, unweight	
Frequency Response ±0.3dB, 30 Hz to 100 KHz Audio Input Impedance 0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION 30 Hz to 15 KHz square wav end 14 KHzsine wave Audio Input Impedance 2 K ohm or more Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ([Sine wave]) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) <0.02%, 60 Hz / 7 KHz, 4:1, +4dBu Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz	Total Harmonic Distortion + Noise	%	<0.02	
Audio Input Impedance 0.03%, 2.96 KHz square wav end 14 KHzsine wave STEREO OPERATION 30 K ohm or more Audio Input Impedance 2 K ohm or more Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ((Sine wave)) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) <0,02%, 60 Hz / 7 KHz, 4:1, +4dBu Inter Modulation Distortion SMPTE (L or R) ±0,2 dB, 30 Hz − 15 Khz	Inter Modulation Distortion SMPTE			
STEREO OPERATION Audio Input Impedance 2 K ohm or more Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ((Sine wave)) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) <0.02%, 60 Hz / 7 KHz, 4:1, +4dBu Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz	Frequency Response		±0.3dB, 30 Hz to 100 KHz	
Audio Input Impedance 2 K ohm or more Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ((Sine wave)) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-Linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) <0.02%, 60 Hz / 7 KHz, 4:1, +4dBu Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz			0.03%, 2.96 KHz square wav end 14 KHzsine wave	
Stereo FM S/N Ratio unweighted >84 dB, 30 Hz to 15 KHz deviation (L or R), rms Stereo Separation ((Sine wave)) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) <0.02%, 60 Hz / 7 KHz, 4:1, +4dBu Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz			2 // alan an anana	
Stereo Separation ((Sine wave)) ≥ 60 dB (30 Hz − 15 KHz) Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) <0.02%, 60 Hz / 7 KHz, 4:1, +4dBu Inter Modulation Distortion SMPTE (L or R) ±0.2 dB, 30 Hz − 15 Khz		-		
Linear Cross Talk Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz) Non-Linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) < 0.02%, 60 Hz / 7 KHz, 4:1, +4dBu		-	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Non-linear Cross Talk Better than 50 dB, referred to 100% modulation Total Harmonic Distortion + Noise (L or R) Inter Modulation Distortion SMPTE (L or R) Better than 50 dB, referred to 100% modulation < 0,02%, 60 Hz / 7 KHz, 4:1, +4dBu ±0,2 dB, 30 Hz - 15 KHz		-		<u> </u>
Total Harmonic Distortion + Noise (L or R) < 0,02%, 60 Hz / 7 KHz, 4:1, +4dBu		-		
Inter Modulation Distortion SMPTE (L or R) ±0,2 dB, 30 Hz – 15 Khz			The state of the s	
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Digital Input Impedance				
	Digital Input Impedance		110 0	





K-KLC SERIES

TX40K-KLC

Parameters	U.M.	Value	Notes
GENERALS			
RF Output power	kW	40	
Frequency range		87.5 – 108 MHz programmable in 1,10 or 1000 KHz steps	
Frequency stability	ppm	±1	
Nominal frequency deviation		±75 KHz (peak)	
Maximum frequency deviation		±100 KHz (peak)	
Class of emission		180KF8E	
Stereo transmission		Acc. To ITU-R / Rec. 450 (Pilot tone)	
RF output impedance		50 Ω, Unbalanced	
RF output connector		4-1/2" EIA Flange	
VSWR		1.41:1 with automatic fold-back at higher VSWR	
Frequency control		Synthesizer µ processor control	
Modulation capability		±150 KHz	
Modulation mode		Mono, Stereo, Multiplex, SCA, RDS, DARC, Aux	
Pre-emphasis Mode		0/50 (CCIR) µs, 75 (FCC) µs	
Asynchronous AM S/N Ratio		> 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis a	nd without FM modulation
Synchronous AM S/N Ratio		≥ 55 dB, reference to 100% AM modulation at 400 Hz, 50 µs Pre-emphasis wi	th 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	
Max Frequency Tolerance		As per ITU (R)	
Analogue Input Level ±75 Khz (peak) deviation		-6 dBu - +6 dBu at 1 Khz, 0 dBu	
Digital Input Level ±75 Khz (peak) deviation		-20.0 dBFS – 0 dBFS (adjustable) at 1 Khz	
MONO OPERATION		0010 (1 . 10010) 45/41 (0011 45/41	La transfer de la constanta de
S/N ratio	0/	> 90dB (typical 92dB), 75KHz deviation (30 Hz to 15 KHz base band) rms, unv	eignted
Total Harmonic Distortion + Noise	%	Better than 0.15	
Inter Modulation Distortion SMPTE	_	Better than 0.20% (60 Hz / 7 KHz, 4:1, +4 ±0.2dB (30Hz - 15Khz)	
Frequency Response	_	±0.206 (3002 - 13802) 600 O balanced or 10 kO unbalanced	
Audio Input Impedance MPX OPERATION		OUU 11 DATAILCEU OF TO KID UIDDATAILCEU	
S/N ratio		>90 dB, 75 KHz deviation rmd, unweight	
Total Harmonic Distortion + Noise	%	<0.02%	
Inter Modulation Distortion SMPTE	- 10	<0.02% 60 hz / 7 khz. 4:1. +4dbu	
Frequency Response	_	±0.3dB, 30 Hz to 100 KHz	
Audio Input Impedance		0.03%, 2.96 KHz square wav end 14 KHzsine wave	
STEREO OPERATION		1	
Audio Input Impedance		2 K ohm or more	
Stereo FM S/N Ratio unweighted		>84 dB, 30 Hz to 15 KHz deviation (L or R), rms	
Stereo Separation ((Sine wave))		≥ 60 dB (30 Hz – 15 KHz)	
Linear Cross Talk		Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz)	
Non-linear Cross Talk		Better than 50 dB, referred to 100% modulation	
Total Harmonic Distortion + Noise (L or R)		<0.02%	





K-KLC SERIES

TX50K-KLC

TAGGIC ILLO			
Parameters GENERALS	U.M.	Value	Notes
RF Output power	kW	40	
Frequency range	I IVI	87.5 – 108 MHz programmable in 1,10 or 1000 KHz steps	
Frequency stability	ppm	±1	
Nominal frequency deviation	ppiii	±75 KHz (peak)	
Maximum frequency deviation		±100 KHz (peak)	
Class of emission		180KF8E	
Stereo transmission		Acc. To ITU-R / Rec. 450 (Pilot tone)	
RF output impedance		50 Ω, Unbalanced	
RF output connector		4-1/2" EIA Flange	
VSWR		1.41:1 with automatic fold-back at higher VSWR	
Frequency control		Synthesizer µ processor control	
Modulation capability		±150 KHz	
Modulation mode		Mono, Stereo, Multiplex, SCA, RDS, DARC, Aux	
Pre-emphasis Mode		0/50 (CCIR) µs, 75 (FCC) µs	
Asynchronous AM S/N Ratio		> 70 dB unweight, referred to 100% AM modulation at 400 Hz Pre-emphasis a	nd without FM modulation
Synchronous AM S/N Ratio		> 55 dB, reference to 100% AM modulation at 400 Hz, 50 µs Pre-emphasis wi	
Harmonics suppression and Spurious	dB	Typically 85	ITTE HIOGACATOR ACTO WITZ OF ACTUACION
Overall efficiency	%	Typically 70/72	
RF Harmonics		Exceeds ETSI/CCIR/FCC requirements	
RF Spurious		Exceeds ETSI/CCIR/FCC requirements	
Max Frequency Tolerance		As per ITU (R)	
Analogue Input Level ±75 Khz (peak) deviation		-6 dBu - +6 dBu at 1 Khz, 0 dBu	
Digital Input Level ±75 Khz (peak) deviation		-20.0 dBFS – 0 dBFS (adjustable) at 1 Khz	
MONO OPERATION			
S/N ratio	0/	> 90dB (typical 92dB), 75KHz deviation (30 Hz to 15 KHz base band) rms, unw	eighted
Total Harmonic Distortion + Noise	%	Better than 0.15	
Inter Modulation Distortion SMPTE		Better than 0.20% (60 Hz / 7 KHz, 4:1, +4 ±0.2dB (30Hz - 15Khz)	
Frequency Response			
Audio Input Impedance MPX OPERATION		600 Ω balanced or 10 kΩ unbalanced	
S/N ratio		>90 dB, 75 KHz deviation rmd, unweight	
Total Harmonic Distortion + Noise	%	<0.02%	
Inter Modulation Distortion SMPTE		<0.02% 60 hz / 7 khz. 4:1. +4dbu	
Frequency Response		±0.3dB, 30 Hz to 100 KHz	
Audio Input Impedance		0.03%, 2.96 KHz square wav end 14 KHzsine wave	
STEREO OPERATION			
Audio Input Impedance		2 K ohm or more	
Stereo FM S/N Ratio unweighted		>84 dB, 30 Hz to 15 KHz deviation (L or R), rms	
Stereo Separation ((Sine wave))		≥ 60 dB (30 Hz – 15 KHz)	
Linear Cross Talk		Better than 50 dB, referred to 100% modulation (30 Hz to 15 KHz)	
Non-linear Cross Talk		Better than 50 dB, referred to 100% modulation	
Total Harmonic Distortion + Noise (L or R)		<0.02%	
Frequency response (L or R)		<0.02%, 60 hz / 7 khz, 4:1, +4 dbu	
Frequency response (L or R)		±0.2 dB, 30 Hz – 15 KHz	
Digital Input Impedance		1100	





