TX-K-SS SERIES TX-MODULAR

MODEL TX7K5SS



ORDERING INFORMATION	
Model	Description
TX7K5SS	7.500W Modular system.
TX7K5SS/03D083B	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + SCML1+1SL/V2 + 2x TEX100LCD/S).
TX7K5SS/25D083B	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + SCML1+1SL/V2 + 2x PTX100LCD/S).
TX7K5SS/43D083B	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + SCML1+1SL/V2 + 2x PTX100LCDDSP).
TX7K5SS/61D083B	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + SCML1+1SL/V2 + 2x PTX100DDS).
TX7K5SS/03S083	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + TEX100LCD/S).
TX7K5SS/25S083	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + PTX100LCD/S).
TX7K5SS/43S083	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + PTX100LCDDSP).
TX7K5SS/61S083	Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + PTX100DDS).





MODULAR SERIES



TX7K5SS/61D083B

Modular transmitter, 7.5KW (composed of HC3 + 3x PJ2500LCD + SCML1+1SL/V2 + 2x PTX100DDS).

FEATURES

- Tunable over entire FM band (87.5 108 MHZ) without tuning.
- Available in multiple configurations from 2KW to 14KW.
- Amplifier's units from 1.000W to 3.500W.
- Exciter's BLUES, TEX, PTX Series depending on client's requirements and budget.
- Overall efficiency better than 70%.
- Remotely controllable by telemetry system.
- Design for 24/7 non-stop operation.
- N+1 Configuration available.
- Compliance to IEC safety standards.
- Compliance with EC CCIR FCC standards.







TX7K5SS/61D083B

Parameters M.M. Value Notes	1X/ K333/ 0 1D003D			
Frequency Range		U.M.	Value	Notes
Frequency Range				
Frequency Stability	RF Output Power			
Prequency programmability	Frequency Range	MHz	87,5 – 108	
Nominal Frequency Deviation	Frequency Stability	ppm	>1	
Asximum Frequency Deviation 150 KHz [peak]	Frequency programmability		By software, with 1, 10, 100 , 1000 kHz steps	
180KF8E Direct to Channel Modulation Mode	Nominal Frequency Deviation		±75 KHz (peak)	
Modulation Mode Mono, Steren, Multiplex, SCA, RDS, Aux Stere transmissions Acc. to ITU-R/Rec. 460 Pilot tone) RF Output Impedance 50 0, Unbalanced RF Output Connector 1-5/8° EIA Flange VSWR 1.4-1 with automatic field-back at higher VSWR Pre-emphasis Mode 0/50 ICCIR JPs, 75 [FCC) µs Asynchronous AM S/N Ratio dB Typically > 70 Synchronous AM S/N Ratio dB Typically > 55 Harmonics Suppression and Spurious dB Typically > 55 RE Amonics Exceeds ETS/ICCIR/FCC requirements RF Sparrious Exceeds ETS/ICCIR/FCC requirements Analogue Input Level (-75 Khz [peak) deviation } 2-12.5 Bits and 1-12.5	Maximum Frequency Deviation		±150 KHz (peak)	
Stereo transmissions Acc. to TU-R Rec. 450 Pilot tone RF Output Impedance 50 0. Unbelanced RF Output Connector 1.5 50 0. Unbelanced RF Suprised 1.5 1.5 1.5 1.5 1.5 1.5 1.5 RSynchronous AM S/N Ratio dB Typically > 55 RSynchronous AM S/N Ratio dB Typically > 55 RHarmonics suppression and Spurious dB Typically > 55 RF Harmonics 1.5 1.5 1.5 1.5 1.5 RF Spurious 1.5 1.5 1.5 1.5 RF Spurious 1.5 1.5 1.5 1.5 1.5 RF Spurious 1.5 1.5 1.5 1	Class of Emission		180KF8E Direct to Channel	
RF Output Impedance 50 0, Unbalanced RF Output Connector 1.56" EAP Flange VSWR 1.4: with automatic fold-back at higher VSWR Pre-emphasis Mode 0.90 (CCRI) ps/ST FCC Up Asynchronous AM S/N Ratio dB 1.9 (CCRI) ps/ST FCC Up Synchronous AM S/N Ratio dB 1.9 (CCRI) ps/ST FCC Up Synchronous AM S/N Ratio dB 1.9 (CCRI) ps/ST FCC Up Asynchronous AM S/N Ratio dB 1.9 (CCRI) ps/ST FCC Up Synchronous AM S/N Ratio dB 1.9 (CRI) ps/ST FCC Up Pre-cent Serious ESCENSIS STRUCTIR/FCC requirements R F Harmonics Exceeds TISI/CCRIP/CC requirements R F Surrious Exceeds TISI/CCRIP/CC requirements Analogue Input Level (*75 Khz (peak) deviation) 1.12.5 dBu 1-12.5 dBu (adjustable) Digital Input Level (*75 Khz (peak) deviation) 2.20 dBFS - 0 dBFS (adjustable) Digital Input Level (*75 Khz (peak) deviation) 4.72.5 dBu - 12.5 dBu (adjustable) Digital Input Level (*75 Khz (peak) deviation) 4.72.5 dBu - 12.5 dBu (adjustable) Digital Input Level (*75 Khz (peak) deviation) 4.72.5 dBu - 12.5 dBu (adjustable) Digital Input Level (*75 Khz (peak) deviation)	Modulation Mode		Mono, Stereo, Multiplex, SCA, RDS, Aux	
1-5/8" EA Flange 1.4:1 with automatic fold-back at higher VSWR	Stereo transmissions		Acc. to ITU-R / Rec. 450 (Pilot tone)	
1.4:1 with automatic fold-back at higher VSWR	RF Output Impedance		50 Ω, Unbalanced	
Pre-emphasis Mode	RF Output Connector		1-5/8" EIA Flange	
Asynchronous AM S/N Ratio dB Typically > 70	VSWR		1.4:1 with automatic fold-back at higher VSWR	
Synchronous AM S/N Ratio dB Typically > 55	Pre-emphasis Mode		0/50 (CCIR) μs,75 (FCC) μs	
Harmonics suppression and Spurious dB Typically > 85	Asynchronous AM S/N Ratio	dB	Typically > 70	
Overalt efficiency % Typically > 70 RF Harmonics Exceeds ETSI/CCRIFCC requirements RF Spurious Exceeds ETSI/CCRIFCC requirements Analogue Input Level (+75 Khz (peak) deviation } 1.25, 680 - +125, 680 (adjustable) Digital Input Level (+75 Khz (peak) deviation } -20,0 dBFS - 0 dBFS (adjustable) MONO OPERATION	Synchronous AM S/N Ratio	dB	Typically > 55	
RF Harmonics Exceeds ETS/I/CCIR/FCC requirements RF Spurious Exceeds ETS/ICCIR/FCC requirements Analogue Input Levet {+75 Khz (peak) deviation } -12,5 dBu -+12,5 dBu (adjustable) Digital Input Levet {+75 Khz (peak) deviation } -20,0 dBFS - 0 dBFS (adjustable) MOND OPERATION -20,0 dBFS - 0 dBFS (adjustable) S/N ratio dB Typically > 83 Total Harmonic Distortion + Noise % Typically > 0.02 Frequency Response dB Typically > 0.02 Audio Input Impedance 600 0 or 10 kΩ MPX OPERATION Typically > 80 Total Harmonic Distortion + Noise % Typically > 0.05 Inter Modulation Distortion % Typically > 0.05 Frequency Response dB Typically > 0.05 Audio Input Impedance % Typically > 0.05 Frequency Response dB Typically > 0.05 Audio Input Impedance B Typically > 0.05 Stereo FM S/N Ratio dB Typically > 83 Total Harmonic Distortion + Noise (L or R) % Typically > 0.02 Inter Modulation Distortion			Typically < 85	
RF Spurious Exceeds ETS/I/CCIR/FCC requirements Analogue Input Levet {+75 Khz (peak) deviation } -12,5 dBu - +12,5 dBu (adjustable) Digital Input Levet {+75 Khz (peak) deviation } -20,0 dBFS - 0 dBFS (adjustable) MONO OPERATION	Overall efficiency	%		
Analogue Input Levet (+75 Khz (peak) deviation)			•	
Digital Input Level { 475 Khz [peak] deviation }	•		•	
MONO OPERATION S/N ratio dB	Analogue Input level (+75 Khz (peak) deviation)			
S/N ratio dB Typically > 83 Total Harmonic Distortion + Noise % Typically < 0.03			-20,0 dBFS – 0 dBFS (adjustable)	
Total Harmonic Distortion + Noise % Typically < 0.03		l dB l	Tynically > 83	
Inter Modulation Distortion SMPTE % Typically < 0.02	•			
Frequency Response dB		%	71 7 .	
Addio Input Impedance 600 0 or 10 k0 MPX OPERATION Composite S/N ratio dB Typically > 80 Total Harmonic Distortion + Noise % Typically < 0.05 Inter Modulation Distortion % Typically < 0.05 Frequency Response dB Typically ± 0.2 Audio Input Impedance 10 k0 STEREO OPERATION Stereo FM S/N Ratio dB Typically > 83 Total Harmonic Distortion + Noise (L or R) % Typically < 0.02 Inter Modulation Distortion SMPTE (L or R) % Typically < 0.02 Frequency response (L or R) dB Typically ± 0.2 Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 0 or 10 k0		dB	** *	
MPX OPERATION Composite S/N ratio dB Typically > 80 Total Harmonic Distortion + Noise % Typically < 0.05 Inter Modulation Distortion % Typically ≥ 0.05 Frequency Response dB Typically ± 0.2 Audio Input Impedance 10 kΩ STEREO OPERATION Stereo FM S/N Ratio dB Typically > 83 Total Harmonic Distortion + Noise (L or R) % Typically < 0.02 Inter Modulation Distortion SMPTE (L or R) % Typically < 0.02 Frequency response (L or R) dB Typically ± 0.2 Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ		- 45		
Total Harmonic Distortion → Noise % Typically < 0.05	MPX OPERATION			
Inter Modulation Distortion % Typically < 0.05	Composite S/N ratio	dB	Typically > 80	
Frequency Response dB Typically ± 0,2 Audio Input Impedance 10 kΩ STEREO OPERATION Stereo FM S/N Ratio dB Typically > 83 Total Harmonic Distortion + Noise (L or R) % Typically < 0,02	Total Harmonic Distortion + Noise	%	Typically < 0,05	
Audio Input Impedance 10 kΩ STEREO OPERATION Stereo FM S/N Ratio dB Typically > 83 Total Harmonic Distortion + Noise (L or R) % Typically < 0.02 Inter Modulation Distortion SMPTE (L or R) % Typically < 0.02 Frequency response (L or R) dB Typically ± 0.2 Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ	Inter Modulation Distortion	%	Typically < 0,05	
STEREO OPERATION Stereo FM S/N Ratio dB Typically > 83 Total Harmonic Distortion + Noise (L or R) % Typically < 0,02 Inter Modulation Distortion SMPTE (L or R) % Typically < 0,02 Frequency response (L or R) dB Typically ± 0,2 Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ	Frequency Response	dB	Typically ± 0,2	
Stereo FM S/N Ratio dB Typically > 83 Total Harmonic Distortion + Noise (L or R) % Typically < 0,02 Inter Modulation Distortion SMPTE (L or R) % Typically < 0,02 Frequency response (L or R) dB Typically ± 0,2 Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ			10 kΩ	
Total Harmonic Distortion + Noise (L or R)		dD	Tunically > 02	
Inter Modulation Distortion SMPTE (L or R) % Typically < 0,02 Frequency response (L or R) dB Typically ± 0,2 Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ	•			
Frequency response (L or R) dB Typically ± 0,2 Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ				
Linear Cross Talk dB Typically > 50 Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ				
Non-linear Cross Talk dB Typically > 50 Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ				
Stereo Separation (Sine Wave) dB Typically > 70 Audio Input Impedance 600 Ω or 10 kΩ				
Audio Input Impedance 600 Ω or 10 kΩ			· · · · ·	
		dB	· · · · · · · · · · · · · · · · · · ·	
		_		
Digital imput impu	Digital Input Impedance		110 Ω	<u> </u>

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.









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