## KE / KV series TECHNICAL CHARACTERISTICS

STLs System specification

48-72 MHz         (KE/FM, KV/FM)           72-108 MHz         (KE/FM, KV/FM)           160-300 MHz         (KE/FM, KV/FM)           300-512 MHz         (KE/FM, KV/SB)           512-830 MHz         (KE/FM, KV/SB)           512-830 MHz         (KE/FM, KV/SB)           300-1020 MHz         (KE/C, KV/Co)           1.4-2.7 GHz         (KE/C, KV/Co)           Frequency response         ± 0.1 dB typ, from 16 Hz to 53 kHz, 0.5 dB to 100 kHz           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           Stereo cross talk         5 8 dB or better from 15 KHz of 55 dB or better           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           Stereo cross talk         5 8 dB or better from 15 Hz to 15 kHz           ThD (more)         3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Frequency range:	
160-300 MHz         (K£/3B, KV/3B)           300-512 MHz         (K£/3B, KV/3B)           512-830 MHz         (K£/3B, KV/5B)           830-1020 MHz         (K£/2G, KV/5D)           1.4-2.7 GHz         (K£/2G, KV/2C)           Frequency response         ± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz           Stereo cross talk         58 dB or better from 15 Hz to 15 kHz           Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         6 1 % (0.05 at 1 kHz.)           THD (stereo)         < 0.1 % (0.05 at 1 kHz.)	48-72 MHz	( KE/1B, KV/1B)
300-512 MHz         (KE/AB, KV/AB)           512-830 MHz         (KE/SB, KV/SB)           830-1020 MHz         (KE/SC, KV/CO)           1-4-2.7 GHz         (KE/ZC, KV/CO)           Frequency response         ± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz           Stereo separation         58 dB or better from 15 Hz to 15 kHz           Stereo cross talk         55 dB or better           Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. de-emphasized           THD (stereo)         < 0.1 % (0.06 at 1 kHz)	72-108 MHz	( KE/FM, KV/FM)
512-830 MHz         (KE/SB, KV/SB)           830-1020 MHz         (KE/CC, KV/CO)           1.4-2.7 CHz         (KE/CC, KV/CO)           Frequency response         ± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz           Stereo cross talk         55 dB or better from 15 Hz to 15 kHz           Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. and 400 Hz mod.           JHD (two tone ΔF= 1 kHz)         D2≤0.09%, D3≤0.06% (15 Hz to 15 kHz)           THD (two tone ΔF= 1 kHz)         D2≤0.09%, D3≤0.06% (15 Hz to 15 kHz)           KE/1B         15 W           KE/1B         15 W           KE/2B         15 W           KE/3B         15 W           KE/2B         8 W (25 W on request)           KE/2G         8 W (25 W on request)           KE/2G         8 W (25 W on request)           KE/2G         8 W (25 W on request)           Nym tim pedance         5 O/ 75 µs           Output connector <td>160-300 MHz</td> <td>( KE/3B, KV/3B)</td>	160-300 MHz	( KE/3B, KV/3B)
830-1020 MHz         (KE/G, KV/G)           1.4-2.7 CHz         (KE/2G, KV/Z)           Frequency response         ± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz           Stereo separation         58 dB or better from 15 Hz to 15 kHz           Stereo cross talk         55 dB or better from 15 Hz to 15 kHz           Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. de-dwold Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. de-emphasized           THD (stereo)         < 0.1 % (0.05 at 1 kHz)	300-512 MHz	( KE/4B, KV/4B)
1.4-2.7 GHz         (KE/ZG, KV/ZG)           Frequency response         ± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz           Stereo separation         58 dB or better from 15 Hz to 15 kHz           Stereo cross talk         55 dB or better           Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. de-emphasized           THD (stereo)         < 0.1 % ( 0.06 at 1 kHz )           HD (but one ΔF = 1 kHz)         D2≤0.09%, D3≤0.06% (15 Hz to 15 kHz)           Transmitters specifications:         Power outputs (continuously variable from 0):           KE/IB         15 W           KE/BM         25 W           KE/3B         15 W           KE/BB         15 W           KE/BB         3 W (25 Wo ne request)           KE/G         8 W (25 Wo ne request)           KE/G         8 W (25 Wo ne request)           KE/AC         5 W (10 W, 25 W on request)           KE/AC         5 W (10 W, 25 W on request)           KE/AC         5 W (10 W, 25 W on request)           KE/AC         5 W (10 W, 25 W on request)           KE/AC         5 W (10 W, 25 W on request)           KE/AC         5 W (10 W, 25 W on request)           KE/AC	512-830 MHz	( KE/5B, KV/5B)
Frequency response         ± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz           Stereo ceparation         58 dB or better from 15 Hz to 15 kHz           Stereo cross talk         55 dB or better           Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. de-emphasized           THD (stereo)         < 0.1 % (0.05 at 1 kHz)           IHD (mono)         0.2 ≤ 0.09%, D3 ≤ 0.06% (15 Hz to 15 kHz)           ITMS mitters specifications         D2 ≤ 0.09%, D3 ≤ 0.06% (15 Hz to 15 kHz)           KE/1B         15 W           KE/FM         25 W           KE/BB         15 W           KE/BB         15 W           KE/BB         15 W           KE/BC         8 W (25 W on request)           KE/JCG         8 W (25 W on request)           Input impedance         5 W (10 W, 25 W on request)           Output connector         N/female           Modulation         FM           Pre-emphasis         5 O / 75 μ           Spurious and harmonic         below FCC and CCIR requirements           Syncronous AM S/N Ratio         < 60 dB with ΔF ±75 kHz           Composite Frequency response         ± 0.15 dB from 15 Hz to 174 kHz           Stereo	830-1020 MHz	( KE/G, KV/G)
Stereo separation         58 dB or better from 15 Hz to 15 kHz           Stereo cross talk         55 dB or better           Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. de-emphasized           THO (stereo)         3 dB typ. with 75 kHz dev. de-emphasized           THD (mono)         < 0.1 % (0.05 at 1 kHz)           IMD (two tone ΔF= 1 kHz)         D2≤0.09%, D3≤0.06% (15 Hz to 15 kHz)           Trasmitters specifications:         Termitters specifications           Power outputs (continuously variable from 0):         KE/TB           KE/TB         15 W           KE/BB         15 W<	1.4-2.7 GHz	(KE/2G, KV/2G)
Stereo cross talk         55 dB or better           Signal to Noise Ratio (mono)         72 dB typ, with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ, with 75 kHz dev. de-emphasized           THD (stereo)         < 0.1 % (0.06 at 1 kHz)           IHD (mono)         0.2 ≤0.09%, D3 ≤0.06% (15 Hz to 15 kHz)           IMD (two tone ΔF = 1 kHz)         D2 ≤0.09%, D3 ≤0.06% (15 Hz to 15 kHz)           Transmitters specifications:           Power outputs (continuously variable from 0):           KE/1B         15 W           KE/2B         25 W           KE/3B         15 W           KE/3B         15 W           KE/G         8 W (25 W on request)           KE/CG         8 W (25 W on request)           KE/2C         5 W (10 W, 25 W on request)           KE/2C         5 W (10 W, 25 W on request)           Input impedance         5 W (20 W, 25 W on request)           Output connector         N/female           Modulation         FM           Pre-emphasis         5 O O           Spurious and harmonic         5 O O           Spurious and harmonic         5 O O           Spurious AM S/N Ratio         < 76 dB typ. with 75 kHz dev.           Composite Fix	Frequency response	$\pm$ 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB to 100 kHz
Signal to Noise Ratio (mono)         72 dB typ. with 75 kHz dev. and 400 Hz mod.           Signal to Noise Ratio (stereo)         73 dB typ. with 75 kHz dev. de-emphasized           THD (stereo)         < 0.1 % (0.06 at 1 kHz)           THD (mono)         < 0.1 % (0.05 at 1 kHz)           IMD (two tone ΔF = 1 kHz)         D2 ≤0.09%, D3 ≤0.06% (15 Hz to 15 kHz)           Tensmitters specifications:         Power outputs (continuously variable from 0):           KE/1B         15 W           KE/8M         25 W           KE/3B         15 W           KE/5B         3 W (25 Won request)           KE/2G         8 W (25 Won request)           KE/2C         8 W (25 Won request)           KE/2G         5 W (10 W, 25 W on request)           KE/2G         5 W (10 W, 25 W on request)           KE/2G         5 W (10 W, 25 W on request)           Modulation         FM           Pre-emphasis         5 O (20 W)           Spurious and harmonic         5 W (25 Won request)           Syncronous AM S/N Ratio         6 W (10 W, 25 Won request)           Syncronous AM S/N Ratio         6 W (10 W, 25 Won request)           Composite S/N Ratio         7 S Hz           Composite FMD         6 W (10 W, 25 Won request)           Composite FMD	Stereo separation	58 dB or better from 15 Hz to 15 kHz
Signal to Noise Ratio (stereo)         73 dB typ, with 75 kHz dev. de-emphasized THD (stereo)         < 0.1 % (0.06 at 1 kHz)           THD (mono)         < 0.1 % (0.05 at 1 kHz)           IMD (two tone ΔF = 1 kHz)         D2≤0.09%, D3≤0.09% (15 Hz to 15 kHz)           Transmitters specifications:         Power outputs (continuously variable from 0):           KE/1B         15 W           KE/7M         25 W           KE/3B         15 W           KE/4B         3 T S W           KE/3B         3 W (25 W on request)           KE/2G         3 W (25 W on request)           KE/2G         5 W (10 W, 25 W on request)           Input impedance         5 W (10 W, 25 W on request)           Input impedance         5 W (10 W, 25 W on request)           Modulation         FM           Pre-emphasis         5 W (10 W, 25 W on request)           Syncronous AM S/N Ratio         6 G Bew ift ΔE T S kHz           Syncronous AM S/N Ratio         6 G Bew ift ΔE T S kHz           Asyncronous AM S/N Ratio         6 G Bew ift ΔE T S kHz           Composite S/N Ratio         78 dB typ. with 75 kHz dev.           Composite frequency response         ± 0.15 dB from 15 Hz to 147 kHz           Composite frequency response         ± 0.15 dB from 15 Hz to 17 kHz           Compo	Stereo cross talk	55 dB or better
THD (stereo)         < 0.1 % (0.06 at 1 kHz)	Signal to Noise Ratio (mono)	72 dB typ. with 75 kHz dev. and 400 Hz mod.
THD (mono)         < 0.1 % (0.05 at 1 kHz)           IMD (two tone ΔF = 1 kHz)         D2 ≤ 0.09%, D3 ≤ 0.06% (15 Hz to 15 kHz)           Transmitters specifications.         Power outputs (continuously variable from 0):           KE/1B         15 W           KE/7B         25 W           KE/3B         15 W           KE/4B         5 W           KE/5B         8 W (25 W on 15 W W S W On 15 W W W W W W W W W W W W W W W W W W	Signal to Noise Ratio (stereo)	73 dB typ. with 75 kHz dev. de-emphasized
IMD (two tone ΔF= 1 kHz)         D2≤0.09%, D3≤0.06% (15 Hz to 15 kHz)           Transmitters specifications:         Power outputs (continuously variable from 0):           KE/1B         15 W           KE/7B         25 W           KE/3B         15 W           KE/3B         15 W           KE/5B         8 W (25 W on request)           KE/2G         8 W (25 W on request)           KE/2G         5 W (10 W, 25 W on request)           KE/2G         5 W (10 W, 25 W on request)           Input impedance         5 W (25 W on request)           Output connector         N/female           Modulation         FM           Pre-emphasis         5 (5 Y 75 μs)           Spurious and harmonic         below FCC and CCIR requirements           Syncronous AM S/N Ratio         < -60 dBc with ΔF ±75 kHz           Asyncronous AM S/N Ratio         < -70 dBc respect to 100% AM mod.           Composite FNR Ratio         < -70 dBc respect to 100% AM mod.           Composite FNR Ratio         < -70 dBc respect to 100% AM mod.           Composite Frequency response         ± 0.15 dB from 15 Hz to 147 KHz           Stereo separation         6 dB db setter from 15 Hz to 147 KHz           Stereo separation         6 dB db setter from 15 Hz to 15 kHz	THD (stereo)	< 0.1 % (0.06  at  1  kHz)
Transmitters specifications:           Power outputs (continuously variable from 0):         15 W           KE/1B         15 W           KE/FM         25 W           KE/3B         15 W           KE/4B         15 W           KE/5B         8 W (25 W on request)           KE/C         8 W (25 W on request)           KE/2G         8 W (25 W on request)           Input impedance         5 W (10 W, 25 W on request)           Input impedance         5 W (10 W, 25 W on request)           Modulation         FM           Pre-emphasis         50 / 75 μs           Spurious and harmonic         below FCC and CCIR requirements           Syncronous AM S/N Ratio         < 60 dBc with ΔF ± 75 kHz	THD (mono)	< 0.1 % ( 0.05 at 1 kHz )
Power outputs (continuously variable from 0):         KE/1B         15 W           KE/1B         15 W         25 W           KE/3B         15 W         KE/4B         15 W           KE/4B         5 W         5 W           KE/5B         8 W (25 W on request)         5 W           KE/2C         3 W (25 W on request)         2 W           KE5/2G         5 W (10 W, 25 W on request)         Input impedance         50 Ω           Output connector         N/female         Modulation         FM           Pre-emphasis         50 / 75 μs         5 yurious and harmonic         50 / 75 μs           Spurious and harmonic         below FCC and CCIR requirements         50 / 75 μs           Spurious AM S/N Ratio         <-70 dBc respect to 100% AM mod.	· · · · · · · · · · · · · · · · · · ·	$D2 \le 0.09\%$ , $D3 \le 0.06\%$ (15 Hz to 15 kHz)
KE/1B         15 W           KE/FM         25 W           KE/3B         15 W           KE/4B         15 W           KE/5B         5 W           KE/CG         8 W (25 W on request)           KE/2G         5 W (10 W, 25 W on request)           Input impedance         50 Ω           Output connector         N/female           Modulation         FM           Pre-emphasis         50 / 75 μs           Spurious and harmonic         below FCC and CCIR requirements           Syncronous AM S/N Ratio         < 60 dBc with ΔF ±75 kHz		
KE/FM         25 W           KE/3B         15 W           KE/4B         15 W           KE/5B         5 W           KE/G         8 W (25 W on request)           KE/2C         2 W           KE5/2G         5 W (10 W, 25 W on request)           Input impedance         50 Ω           Output connector         N/female           Modulation         FM           Pre-emphasis         50 / 75 μs           Spurious and harmonic         below FCC and CCIR requirements           Syncronous AM S/N Ratio         <-60 dBc with ΔF ±75 kHz	Power outputs (continuously variable from 0):	
KE/3B         15 W           KE/4B         15 W           KE/5B         5 W           KE/G         8 W (25 W on request)           KE/2G         2 W           KE5/2G         5 W (10 W, 25 W on request)           Input impedance         50 Ω           Output connector         N/female           Modulation         FM           Pre-emphasis         50 / 75 μs           Spurious and harmonic         below FCC and CCIR requirements           Syncronous AM S/N Ratio         <-60 dBc with ΔF ±75 kHz	KE/1B	15 W
KE/4B15 WKE/5B5 WKE/G8 W (25 W on request)KE/2G2 WKE5/2G5 W (10 W, 25 W on request)Input impedance50 ΩOutput connectorN/femaleModulationFMPre-emphasis50 / 75 μsSpurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio<-60 dBc with ΔF ±75 kHz	KE/FM	25 W
KE/5B5 WKE/C8 W (25 W on request)KE/2G2 WKE5/2G5 W (10 W, 25 W on request)Input impedance50 ΩOutput connectorN/femaleModulationFMPre-emphasis50 / 75 μsSpurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio<-60 dBc with ΔF ±75 kHz	KE/3B	15 W
KE/G8 W (25 W on request)KE/2G2 WKE5/2G5 W (10 W, 25 W on request)Input impedance50 ΩOutput connectorN/femaleModulationFMPre-emphasis $50/75 \mu s$ Spurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio $<60 \text{ dBc with } \Delta F \pm 75 \text{ kHz}$ Asyncronous AM S/N Ratio $<70 \text{ dBc respect to } 100% \text{ AM mod.}$ Composite S/N Ratio78 dB typ. with 75 kHz dev.Composite THD $0.08 \% \text{ typ.}$ Composite frequency response $\pm 0.15 \text{ dB from } 15 \text{ Hz to } 15 \text{ kHz}$ Stereo separation $60 \text{ dB or better from } 15 \text{ Hz to } 15 \text{ kHz}$ Capability1 mono/stereo program, up to 3 SCA (optional)Meteringoutput level, peak modulation, diagnostic functionsFrequency settinginternal dip-switches (standard) or front panel selector (optional)Operating temperature $-20\%$ to $+45\%$ DC input power (optional) $12.5 \text{ VDC } (3A \text{ for } 2W \text{ models}, 4A \text{ for } 5W, 5A \text{ for } 8W, 6A \text{ for } 15/25W)$ AC input voltage $12.0 \text{ or } 220/240 \text{ VAC}, 50/60 \text{ Hz}, 96 \text{ VA for } 25 \text{ W models}.$ Dimensionsdepth $483 \text{ mm } (19\%) \times 2 \text{ U (standard rack unit)}$	KE/4B	15 W
KE/2G2 WKE5/2G5 W (10 W, 25 W on request)Input impedance50 ΩOutput connectorN/femaleModulationFMPre-emphasis $50 / 75 \mu s$ Spurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio $<-60$ dBc with $\Delta F \pm 75$ kHzAsyncronous AM S/N Ratio $<-70$ dBc respect to $100\%$ AM mod.Composite S/N Ratio $78$ dB typ. with $75$ kHz dev.Composite THD $0.08\%$ typ.Composite frequency response $\pm 0.15$ dB from $15$ Hz to $147$ KHzStereo separation $60$ dB or better from $15$ Hz to $15$ kHzCapability $1$ mono/stereo program, up to $3$ SCA (optional)Meteringoutput level, peak modulation, diagnostic functionsFrequency settinginternal dip-switches (standard) or front panel selector (optional)Operating temperature $-20\%$ C to $+45\%$ CDC input power (optional) $12.5$ VDC (3A for $2$ W models, $4$ A for $5$ W, $5$ A for $8$ W, $6$ A for $15/25$ W)AC input voltage $120$ or $220/240$ VAC, $50/60$ Hz, $96$ VA for $25$ W models.Dimensionsdepth $483$ mm $(19\%)$ x $2$ U (standard rack unit)	KE/5B	5 W
KE5/2G5 W (10 W, 25 W on request)Input impedance50 ΩOutput connectorN/femaleModulationFMPre-emphasis $50/75 \mu s$ Spurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio $<-60$ dBc with $\Delta F \pm 75$ kHzAsyncronous AM S/N Ratio $<-70$ dBc respect to $100\%$ AM mod.Composite S/N Ratio $78$ dB typ. with $75$ kHz dev.Composite THD $0.08\%$ typ.Composite frequency response $\pm 0.15$ dB from $15$ Hz to $147$ kHzStereo separation $60$ dB or better from $15$ Hz to $15$ kHzCapability $1$ mono/stereo program, up to $3$ SCA (optional)Meteringoutput level, peak modulation, diagnostic functionsFrequency settinginternal dip-switches (standard) or front panel selector (optional)Operating temperature $-20^{\circ}$ C to $+45^{\circ}$ CDC input power (optional) $12.5$ VDC ( $3A$ for $2W$ models, $4A$ for $5W$ , $5A$ for $8W$ , $6A$ for $15/25W$ )AC input voltage $120$ or $220/240$ VAC, $50/60$ Hz, $96$ VA for $25$ W models.Dimensionsdepth $483$ mm ( $19^{\circ}$ ) x $2$ U (standard rack unit)	, -	8 W (25 W on request)
Input impedance50 ΩOutput connectorN/femaleModulationFMPre-emphasis50 / 75 μsSpurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio<-60 dBc with ΔF ±75 kHz	KE/2G	
Output connectorN/femaleModulationFMPre-emphasis50 / 75 μsSpurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio<-60 dBc with ΔF ±75 kHz		
ModulationFMPre-emphasis $50 / 75 \mu s$ Spurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio $< -60 \text{ dBc}$ with $\Delta F \pm 75 \text{ kHz}$ Asyncronous AM S/N Ratio $< -70 \text{ dBc}$ respect to $100\%$ AM mod.Composite S/N Ratio $78 \text{ dB}$ typ. with $75 \text{ kHz}$ dev.Composite THD $0.08\%$ typ.Composite frequency response $\pm 0.15 \text{ dB}$ from $15 \text{ Hz}$ to $147 \text{ KHz}$ Stereo separation $60 \text{ dB}$ or better from $15 \text{ Hz}$ to $15 \text{ kHz}$ Capability $1 \text{ mono/stereo program, up to } 3 \text{ SCA (optional)}$ Meteringoutput level, peak modulation, diagnostic functionsFrequency settinginternal dip-switches (standard) or front panel selector (optional)Operating temperature $-20^{\circ}\text{C to} + 45^{\circ}\text{C}$ DC input power (optional) $12.5 \text{ VDC } (3A \text{ for } 2W \text{ models, } 4A \text{ for } 5W, 5A \text{ for } 8W, 6A \text{ for } 15/25W)$ AC input voltage $120 \text{ or } 220/240 \text{ VAC, } 50/60 \text{ Hz, } 96 \text{ VA for } 25 \text{ W models.}$ Dimensionsdepth $483 \text{ mm } (19^{\circ}) \times 2 \text{ U (standard rack unit)}$	Input impedance	
Pre-emphasis50 / 75 μsSpurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio< -60 dBc with ΔF ±75 kHz		•
Spurious and harmonicbelow FCC and CCIR requirementsSyncronous AM S/N Ratio< -60 dBc with ΔF ±75 kHz	Modulation	FM
Syncronous AM S/N Ratio<-60 dBc with ΔF ±75 kHzAsyncronous AM S/N Ratio<-70 dBc respect to 100% AM mod.		• •
Asyncronous AM S/N Ratio <a href="#">&lt;-70 dBc respect to 100% AM mod.</a> Composite S/N Ratio <a href="#">78 dB typ. with 75 kHz dev.</a> Composite THD <a href="#">0.08 % typ.</a> Composite frequency response <a href="#">± 0.15 dB from 15 Hz to 147 KHz</a> Stereo separation <a href="#">60 dB or better from 15 Hz to 147 KHz</a> Stereo separation <a href="#">60 dB or better from 15 Hz to 15 kHz</a> Capability <a href="#">1 mono/stereo program, up to 3 SCA (optional)</a> Metering <a href="#">output level, peak modulation, diagnostic functions</a> Frequency setting <a href="#">output level, peak modulation, diagnostic functions</a> Frequency setting <a href="#">internal dip-switches (standard) or front panel selector (optional)</a> Operating temperature <a href="#">-20°C to +45°C</a> DC input power (optional) <a href="#">12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)</a> AC input voltage <a href="#">120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models.</a> Dimensions <a href="#">depth 483 mm (19") x 2 U (standard rack unit)</a>		
Composite S/N Ratio  Composite THD  Composite frequency response  Extreo separation  Capability  Metering  Composite frequency setting  Operating temperature  Diagnostic frequency  Composite frequency response  Diagnostic frequency  The first of 15 Hz to 147 KHz  Stereo separation  Extreo separation  Capability  Capa	,	
Composite THD  Composite frequency response  \$\frac{\pmathbb{\pmanh}\pmathbb{\pmathb	,	
Composite frequency response ± 0.15 dB from 15 Hz to 147 KHz  Stereo separation 60 dB or better from 15 Hz to 15 kHz  Capability 1 mono/stereo program, up to 3 SCA (optional)  Metering output level, peak modulation, diagnostic functions  Frequency setting internal dip-switches (standard) or front panel selector (optional)  Operating temperature -20°C to +45°C  DC input power (optional) 12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  AC input voltage 120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models.  Dimensions depth 483 mm (19") x 2 U (standard rack unit)		
Stereo separation 60 dB or better from 15 Hz to 15 kHz Capability 1 mono/stereo program, up to 3 SCA (optional) Metering output level, peak modulation, diagnostic functions Frequency setting internal dip-switches (standard) or front panel selector (optional) Operating temperature -20°C to +45°C DC input power (optional) 12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W) AC input voltage 120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models. Dimensions depth 483 mm (19") x 2 U (standard rack unit)		
Capability 1 mono/stereo program, up to 3 SCA (optional)  Metering output level, peak modulation, diagnostic functions  Frequency setting internal dip-switches (standard) or front panel selector (optional)  Operating temperature -20°C to +45°C  DC input power (optional) 12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  AC input voltage 120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models.  Dimensions depth 483 mm (19") x 2 U (standard rack unit)		
Metering output level, peak modulation, diagnostic functions Frequency setting internal dip-switches (standard) or front panel selector (optional)  Operating temperature -20°C to +45°C  DC input power (optional) 12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  AC input voltage 120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models.  Dimensions depth 483 mm (19") x 2 U (standard rack unit)		
Frequency setting internal dip-switches (standard) or front panel selector (optional)  Operating temperature -20°C to +45°C  DC input power (optional) 12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  AC input voltage 120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models.  Dimensions depth 483 mm (19") x 2 U (standard rack unit)		
Operating temperature -20°C to +45°C DC input power (optional) 12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W )  AC input voltage 120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models.  Dimensions depth 483 mm (19") x 2 U (standard rack unit)		
DC input power (optional)  AC input voltage  Dimensions  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)  12.5 VDC (3A for 2W models, 4A for 5W, 5A for 8W, 6A for 15/25W)		· · · · · · · · · · · · · · · · · · ·
AC input voltage 120 or 220/240 VAC, 50/60 Hz, 96 VA for 25 W models. Dimensions depth 483 mm (19") x 2 U (standard rack unit)		
Dimensions depth 483 mm (19") x 2 U (standard rack unit)		· · · · · · · · · · · · · · · · · · ·
Net weight 9.8 kg		·
	Net weight	9.8 kg

Receivers specifications:

KV/1B, KV/FM, KV/3B, KV/4B, KV/5B, KV/G, KV/2G

Amplitude response	$\pm 0.1$ dB from 15 Hz to 53 kHz, $\pm 0.5$ dB from 53 kHz to 100 kHz
Monoaural Sensitivity	8 $\mu$ V for S/N 52 dB, 16 $\mu$ V/60 dB, 200 $\mu$ V/70 dB, 1 mV/78 dB
Composite Sensitivity	8 $\mu$ V for S/N 40 dB, 16 $\mu$ V/42 dB, 150 $\mu$ V/60 dB, 1 mV/72 dB
Noise figure	(RFin = 2mV) < 8 KTo
Selectivity	$\pm$ 160 kHz at -3 dB IF BW, $\pm$ 500 kHz at -78 dB IF BW
Metering	RF input level, peak modulation
Frequency setting	internal dip-switches (standard) or front panel selector (optional)
RF input	N/female, 50 ohm
Image rejection	> 68 dB
Squelch threshold	adjustable from 8 μV
Outputs	composite, monoaural, IF 10.7 MHz
Operating temperature	-10°C to +45°C
DC input power (optional)	12.5 VDC, 2.5 A
AC input voltage	120 or 220/240 VAC, 50/60 Hz, 34 VA
Dimensions:	depth 483 mm (19") x 2 U (standard rack unit)
Net weight	8.6 – 9.5 kg
Options on request:	
NDC	24 VDC / Battery operation

Front panel frequency selector Features and specifications subject to change without notice.



## COMPOSITE AURAL STLS KE, KV series



- Synthesized from 48 to 1020 MHz ( /1B, /FM, /3B, /4B, /5B, /GHz models) and from 1.2 to 2.7 GHz ( /2G models). The transmitted and received frequency can be easily set by the internal dip switches or by the front panel numerical selector (/C option).
- Excellent stereo separation. A built-in group delay and amplitude precorrector guarantees a very low phase distortion and a great stereo separation in the whole 15 kHz band.
- Suitable for digital audio. The subsonic overmodulation and the low frequency phase distortion are controlled by a feedback circuit in order to exalt the audio quality of the latest digital systems.
- Low THD distortion: the THD value with stereo or mono demodulated and deemphasized signals is negligible.
- **Flat frequency response:** due to the latest generation technology and the components precision the flatness of frequency response is absolute.

- Low noise: the excellent signal to noise ratio either in mono or in stereo allows the use of this STLs in multi hops networks without decreasing the audio quality.
- **High sensitivity:** it allows to reduce the STL's antennas investment.
- Great RF immunity: allows to operate in most hostile RF environments.
- High adjacent channel rejection: obtained thanks to the excellent mechanical shielding and the precision of RF filtering.
- **High frequency stability** with the internal temperature compensated crystal reference.
- **Full metering:** complete diagnostic and measurement front panel displays are available.
- Battery operations. VDC option is available for battery or solar panels operations.
- Meets or exceeds all FCC and CCIR requirements.

