



KE / KV Series Analog Audio Links



KE / KV Series Specifications



The KE and KV analog STL Series are the best audio quality links for contribution and/or distribution broadcasting networks.

Synthesized

Synthesized from 48 to 1020 MHz (1 B, 1 FM, 3 B, 4 B, 5 B, 6 Hz models). The transmitted and received frequency can be easily set by internal dip - switches.

Excellent stereo separation

A built-in group delay and amplitude pre-corrector guarantees a very low phase distortion and a great stereo separation in the whole audio band.

Suitable for digital audio

The subsonic over-modulation and the low frequency phase distortion are controlled by a feedback circuit in order to exalt the audio quality of the latest digital studio equipment.

Low THD distortion

The THD value with stereo or mono demodulated signals is negligible.

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 channel filtering.

High frequency stability

High frequency stability with the internal temperature compensated crystal reference.

Full metering

Complete diagnostic and measurement front panel displays are available.

Meets or exceeds

Meets or exceeds all FCC and CCIR requirements.

TECHNICAL SPECIFICATIONS

Dimensions

Frequency Range:	
• KE/1B, KV/1B	48-80 MHz
KE/FM, KV/FM	80-108 MHz
• KE/3B, KV/3B	160-300 MHz
• KE/4B, KV/4B	300-512 MHz
• KE/5B, KV/5B	512-830 MHz
KE/G, KV/G	830-1020 MHz
Composite Frequency response	± 0.1 dB typ. from 16 Hz to 53 kHz, 0.5 dB up to 100 kHz
Mono Frequency response	±0.5 dB from 20 Hz to 15 kHz
Stereo separation	≥ 58 dB (from 15 Hz to 15 kHz)
Stereo cross talk	≥ 55 dB
Signal to Noise Ratio (mono) (-50 dBm received)	≥ 72 dB with 75 kHz dev. deemphasized
Signal to Noise Ratio (stereo) (-50 dBm received)	≥ 68 dB with 75 kHz dev. deemphasized
THD (stereo)	< 0.1 %
THD (mono)	< 0.1 %
IMD (two tone ΔF= 1 kHz)	$D2 \le 0.09\%$, $D3 \le 0.06\%$ (from 15 Hz to 15 kHz)
TRANSMITTERS SPECIFICATIONS	
Power outputs (continuously adjustable from 0 to n	ominal power):
• KE/1B	15 W
• KE/FM	30 W
• KE/3B	15 W
• KE/4B	15 W
• KE/5B	15 W
• KE/G	8 W (25 W on request)
• KE30/4B	30 W
Input connectors	XLR, 600 Ω for mono or stereo (Left&Right) BNC, 10k Ω for MPX
Output connector	N female, 50Ω
Modulation	FM
Pre-emphasis	0/50/75 µs
Spurious and harmonic suppression	Exceeds CCIR/FCC requirements
Syncronous AM S/N Ratio	≤ -60 dBc with dev. ±75 kHz
Asyncronous AM S/N Ratio	≤ -70 dBc respect to 100% AM mod.
Capability	i mono/stereo program, up to 3 30A (optional)
· · · ·	1 mono/stereo program, up to 3 SCA (optional) output level, peak modulation, diagnostic functions
Capability Metering Frequency setting	output level, peak modulation, diagnostic functions internal dip-switches

depth 483 mm (19") x 2 U (standard rack unit)



Managural Canaitivity	0 - 3/ for C/N F0 dB
Monoaural Sensitivity	8 μV for S/N 52 dB, 16 μV/60 dB, 200 μV/70 dB, 1 mV/78 dB
Composite Sensitivity	8 µV for S/N 40 dB, 16 µV/42 dB, 150 µV/60 dB, 1 mV/72 dB
Noise figure	(RF in = 2mV) < 8 KTo
Selectivity	± 160 kHz at -3 dB IF BW, ± 500 kHz at -78 dB IF BW
Metering	RF input level, peak modulation
Frequency setting	internal dip-switches
RF input	N female, 50 Ω
Image rejection	> 68 dB
Squelch threshold	adjustable from 8 μV
Outputs	composite, monoaural, IF 10.7 MHz
Dimensions	depth 483 mm (19") x 2 U (standard rack unit)
AC POWER REQUIREMENT	TS .
AC input voltage	115 / 230 VAC ± 15%, single phase.
AC supply frequency	50 Hz or 60 Hz, ±5%
CNIVIDONMENT	
ENVIRONMENT	
Cooling	Forced air
	Forced air Continuous 24/24h
Cooling	
Cooling Service	Continuous 24/24h -5°C to +45°C
Cooling Service Operating temperature	Continuous 24/24h -5°C to +45°C Derate 3°C per 500mt above 2000mt asl
Cooling Service Operating temperature Relative humidity	Continuous 24/24h -5°C to +45°C Derate 3°C per 500mt above 2000mt asl
Cooling Service Operating temperature Relative humidity AVAILABLE OPTIONS	Continuous 24/24h -5°C to +45°C Derate 3°C per 500mt above 2000mt asl Up to 95%
Cooling Service Operating temperature Relative humidity AVAILABLE OPTIONS /S	Continuous 24/24h -5°C to +45°C Derate 3°C per 500mt above 2000mt asl Up to 95% High performance built-in Digital Stereo Coder for KE transmitter

All specifications are subject to change without notice.

Contact Information

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