

SPECIFICATIONS

NOTE

All specifications are typical and may vary slightly from unit to unit.

POWER REQUIREMENTS

Operating Voltage Input to Instrument	24 volts AC nominal, 28 volts AC maximum; 50-60 Hertz
Power Consumption	6 watts

CONTROLLERS

Keyboard	32 note (F to C)
GLIDE control	Linear, continuously variable from 5 msec to 2.3 sec

TUNE Control	+/- 3 semitones
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MODULATION RATE Control	.3Hz to 31Hz
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MODULATION SHAPE Switch	Triangle, Square or Sample and Hold
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OSC MODULATION Amount	Zero to 18 semitones
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VFC MODULATION Amount	Zero to 4 octaves
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PITCH WHEEL Range	+/- 7 semitones
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OSCILLATORS

Reference frequency for Low F (Octave = 32')

OSC 1	43.65Hz
OSC 2	43.65Hz

WAVEFORMS

OSC 1	Sawtooth and 50% duty cycle; Square wave
OSC 2	Sawtooth and 85% duty cycle; Pulse wave

OCTAVES

OSC 1 and OSC 2	32', 16', 8'
SYNC OSC 2 TO OSC 1, ON	Locks the fundamental frequency of OSC 2 to OSC 1; INTERVAL control sweeps OSC 2 four octaves

SYNC OSC 2 TO OSC 1, CONTOURED	Locks the fundamental frequency of OSC 2 to OSC 1; Contour envelope sweeps OSC 2 through the CONTOUR AMT Control (four octaves)
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OSC 2 INTERVAL Control	16 semitones
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CONTOUR GENERATOR

ATTACK Time

Minimum	4 milliseconds
Maximum	6 seconds

DECAY Time

Minimum	10 milliseconds
Maximum	20 seconds

Sustain Level at U12B with Key depressed and SUSTAIN Switch IN	4.8 volts
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VOLTAGE CONTROLLED FILTER (VCF)

Type: Patented 24dB/octave low pass filter

KEYBOARD TRACKING	Zero to 100% of keyboard control voltage effects the filter cutoff
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Regeneration Frequency with FILTER CUTOFF Control centered, KEYBOARD TRACKING min., CONTOUR AMT min.	740Hz
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Range of FILTER CUTOFF Control	11 octaves
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FILTER CONTOUR AMT Range	6.3 octaves
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VOLTAGE CONTROLLED AMPLIFIER (VCA)

(All outputs measured at AUDIO OUT)

OSC 1 Sawtooth	- 2dB
OSC 2 Sawtooth	- 2dB
NOISE	+6dB

REAR PANEL I/O

KEYBOARD IN	1 volt per octave
KEYBOARD OUT	1 volt per octave
S-TRIGGER IN	Short to ground triggers CONTOUR GENERATOR
S-TRIGGER OUT	Shorts J2 pin 5 to ground when key is depressed
V-TRIGGER IN	+3 to 10 volt gate triggers CONTOUR GENERATOR
V-TRIGGER OUT	+10 volts when key is depressed
AUDIO IN	Signal is processed by VCF and VCA; 18K input impedance

SIGNAL TO NOISE RATIO

Bleedthrough (all levels down, MASTER VOL max)	50dB
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WEIGHTS AND DIMENSIONS

Synthesizer Dimensions	21" wide x 12-1/2" deep x 5-1/4" high (53cm x 32cm x 13cm)
Synthesizer Weight	11 pounds (5kg)
Carton Dimensions	23-1/8" long x 14" wide x 6-1/4" high (59cm x 36cm x 59cm)
Shipping Weight	14 pounds (6.3kg)