roger schult
german audio lab

Vintage 3-Band EQ W2395c (api 500 ® - system)

The W2395c equalizer offers versatile sound shaping possibilities for the most diverse program material. The unit provides active Baxandall tone controls for treble and bass as well as a semi-parametric mid band filter.

Both gain controls of the Baxandall bands are set up as faders and allow level adjustments between +/- 12 dB per band. Due to the circuit design, the high and low bands may influence each other by up to 4 dB depending on the gain setting within each band.

Two three-position toggle switches allow setting the shoulder frequencies of the low and high bands to 80 Hz or 110 Hz, and 2 kHz or 5 kHz respectively. The center position of each switch marks the "off" position and may be used to disengage the filter band without adjusting the gain control.

The semi-parametric mid band filter was taken from Roger Schult's renowned UF1 filter and provides a continuously variable center frequency between 155 Hz and 3.5 kHz with up to +/- 10 dB of gain. A three-position toggle switch allows setting the q-factor of the bell filter to narrow (Q = 1.5), medium (Q = 0.7), and wide (Q = 0.4).

An illuminated "on"-switch allows removing the EQ from the signal path by means of a high-quality relay ("hard bypass").

As all Roger Schult products, the W2395c is hand-crafted and precision-engineered in Germany.

Technical Data
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Low band EQ, adjustable frequency	80 Hz / filter bypass / 110 Hz via switch
Gain, continously variable	+/- 12 dB range via fader
Mid band frequency	155 Hz to 3.5 kHz, continously variable
Gain, continously variable	+/- 10 dB range via rotary control
Q-factor, 3-position switch	narrow, wide, medium (Q-factor 1.5 / 0.4 / 0.7)
High band EQ, adjustable frequency	2.0 kHz / filter bypass / 5.0 kHz
Gain, continously variable	+/- 12 dB range via fader
on-switch	enable / disable filter module hard-bypass

Input - electronically balanced

Reference input level	+6 dBu
Maximum input level	+15 dBu
Input impedance	10 kOhm

Output - electronically balanced

Reference output level	+6 dBu
Maximum output level	+22 dBu / (0.002% THD+N)
Output impedance	40 Ohm
Gain at linear setting	0 dB bei 1 kHz (+/- 0.2 dB)
Signal-to-noise ratio (UWTD)	82 dB
Signal-to-noise ratio (WTD)	86 dB
Harmonic distortion	THD+N / 0 dBu 0.007% THD+N / 6 dBu 0.003%
Frequency range	20 Hz - 40 kHz (+/- 0.2 dB)
Delay time of hard bypass relais	max. 3 ms
Power supply	+/- 16 V über api ® - System + max.110 mA / -16V max. 70 mA
Module dimensions	115 mm x 172 mm (HxT)
Faceplate dimensions	19”/ 3 RU, 1.5“ x 5.25“ (width x height)
Faceplate finish	aluminium, black anodized
Weight	0.311 kg

Abb.:W2395c