



Universal filter W2377 (api ® 500 - module)

The three fully parametric RS Audio Technique W2377 filter modules cover the complete frequency range from 20 Hz to 23 kHz. The level potentiometer allows continuous gain settings with an effective range of +/-10 dB. Furthermore the midway indent at 0 dB facilitates the mechanical handling.

The setting of the overlapping frequency bands (low, mid, high) with just three different modules allows a precise control of each band and offers the possibility to combine the modules at will. The filter resonance can be set in steps from 0.3 to 10 and the via left stop position respectively the right stop position a high-pass or low-pass filter can be activated. The frequency control adjusts the limiting frequency of these filters.

Via the illuminated switches and buttons a quick change between processed and unprocessed material is possible at any time. An "off" switch activates the true bypass function which removes the unit from the signal chain without undesired effects. In a network of more than one W2377 the "solo" switch bypasses all operating units, so that only the chosen module is active. The "focus" button inverts the level of a module so that a quick selection of the frequency components, that has to be manipulated is easy.

The units are aligned with the api ® 500 series and can be integrated in any api ® environment. High-quality ALPS ® potentiometers and step switches from ELMA ® ensure a long-term usage of the units in continuous operation. For the alignment of different studio environments the level matching of the in- and outputs can be adjusted with a variable resistor on the printboard.

As all Roger Schult products, the W2377 is hand-crafted and precision-engineered in Germany.

Technical data

02/ 2015

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| LB - „low band filter“ | 20 Hz to 730 Hz |
| MB - „mid band filter“ | 155 Hz to 3.5 kHz |
| HB - „high band filter“ | 1.03 kHz to 23.2 kHz |
| Gain, rotary control from center | +/- 10 dB control range |
| Q (quality), 11-position switch | 0.3 / 0.5 / 0.7 / 1.0 / 1.5 / 2.5 / 4 / 6 / 10 as well as LP and HP |
| „focus“, backlit pushbutton | frequency alignment |
| „solo“, backlit switch | solo (only in combination) |
| „off“, backlit switch | filter off function |
| | hard-bypass |

Input - electronically balanced

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| Reference input level | +6 dBu |
| Maximum input level | +23 dBu |
| Input impedance | 10 kOhm |

Output - electronically balanced

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| Reference output level | +6 dBu |
| Maximum output level | +26 dBu / (0.05% THD+N) |
| Output impedance | 55 Ohm |
| Gain at linear setting | 0 dB at 1 kHz (+0.1 / -0.2 dB) |
| Signal-to-noise ratio | < 100 dB |
| Noise level (UWTD / WTD) | < 80 dBq / < 75 dBq |
| Harmonic distortion | THD+N / 0 dBu 0.009% |

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| Frequency range | 20 Hz - 40 kHz (+ 0.1 / - 0.2 dB) |
| Delay time of hard bypass relais | max. 5 ms |

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| Power supply | +/- 16 V on api ® system + max.130 mA / -16V max. 70 mA |
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| Module dimensions | 115 mm x 172 mm (height x depth) |
| Faceplate dimensions | 19" / 3 RU, 1.5" x 5.25" (width x height) |
| Faceplate finish | Aluminium, black anodized |
| Weight | 0.35 kg |



W2377 mid band filter