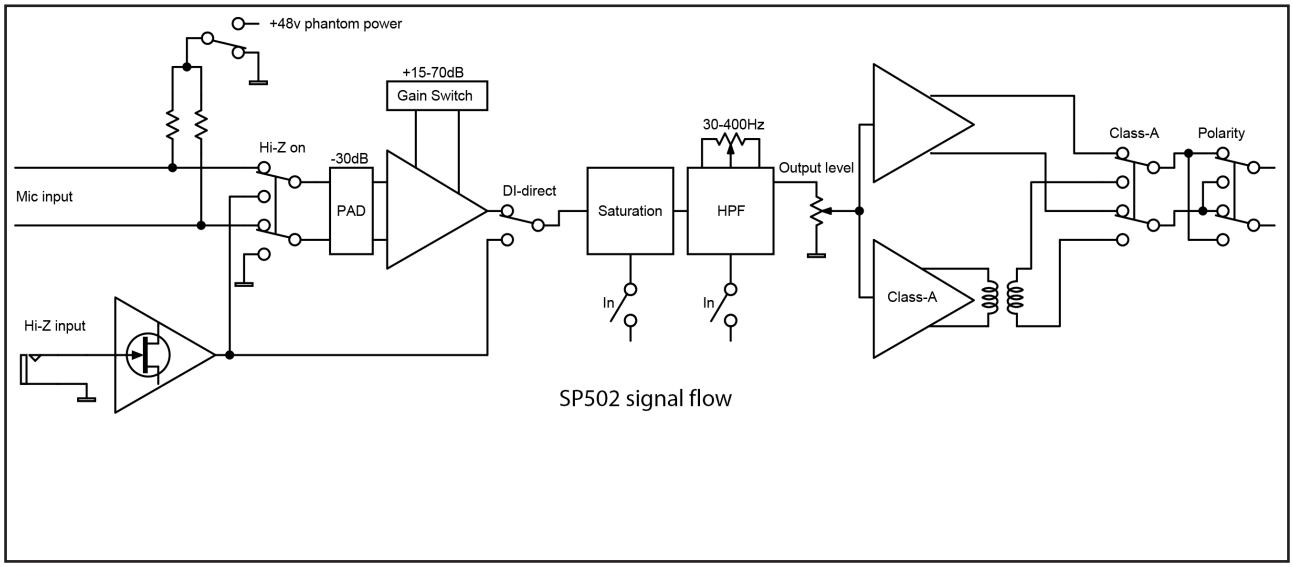
SP502

500-series Class A preamp

SP502 is a new single slot 500-series preamp with a unique hybrid design including both vintage and modern circuits.
A new transformerless input stage forms a clean and transparent front-end, together with the two selectable output stages you can get the low mid punch and thick sound associated with British Class A from the early 70's as well as a more modern clean tone from the 80's and 90's.
SP502 is also equipped with a saturation stage that can be selected to add some extra harmonics to the signal. The sweepable HPF from 30Hz to 400Hz allows precision crafting of the low end.
If you select DI direct mode the Hi-Z input will be feeded directly to the output stage without passing the preamp stage (the saturation circuit and HPF can still be inserted).
Together with the vintage Class A stage activated you'll get a very nice discrete sound path for bass recording with lots of character.
By activating the saturation circuit the THD will raise to around 1% and add more color to the sound.
The DI gain from input to output is +15dB in direct mode.
Always lower the output level when you activate or deactivate the 48v phantom power to avoid loud clicks and pops!



SP502 signal flow

Specifications:
Power requirement: +130mA / -130mA
Input impedance: 2400 ohm
Instrument input impedance: 1Mohm
Max output level: electronically balanced +25dBu, Class A +24dBu
DI direct gain: +15dB
THD+N @ +20dBu electronic balanced output: 0,0008%
THD+N @ +20dBu Class A output: 0,007%
THD+N @ +20dBu saturation active: 0,9%
Frequency response electronic balanced: -0,6dB @ 80kHz
Frequency response Class A: -0,5dB @ 20kHz

The output transformer is only used when Class A is selected and is normaly terminated with a 600 ohms resistor to get a flat frequency respons in Class-A.
If the preamp has Class A selected and is connected to gear with 600ohms input impedance you should remove the termination jumper as the signal will othervice loose hi frequncies and get overheated.