

XW15a DN9848(e) P3000 0dBu V2.0

Output levels and limiter settings assume equal amplifier power to each passband with amplifier input sensitivity of 0dBu

Output 1 Output 2 Output 3 Output 4 Output 5 Output 6 Output 7 Output 8

Output Label	XW15a LF	XW15a HF	XW15a LF	XW15a HF	XW15a LF	XW15a HF	XW15a LF	XW15a HF
Output Delay	125us	0s	125us	0s	125us	0s	125us	0s
Polarity Invert	no	no	no	no	no	no	no	no
Output Gain	0dB	-9dB	0dB	-9dB	0dB	-9dB	0dB	-9dB
HP Filter								
Type	BW24	LR24	BW24	LR24	BW24	LR24	BW24	LR24
Frequency	50Hz	1.5kHz	50Hz	1.5kHz	50Hz	1.5kHz	50Hz	1.5kHz
LP Filter								
Type	LR24	BW12	LR24	BW12	LR24	BW12	LR24	BW12
Frequency	1.5kHz	18.2kHz	1.5kHz	18.2kHz	1.5kHz	18.2kHz	1.5kHz	18.2kHz
All-Pass Filter								
Frequency								
Slope	out	out	out	out	out	out	out	out
Q								
Filter 1								
Filter Type	Loshelf	PEQ	Loshelf	PEQ	Loshelf	PEQ	Loshelf	PEQ
Frequency	69.4Hz	1.21kHz	69.4Hz	1.21kHz	69.4Hz	1.21kHz	69.4Hz	1.21kHz
Slope/Q	12dB	4.8	12dB	4.8	12dB	4.8	12dB	4.8
Gain	6dB	3dB	6dB	3dB	6dB	3dB	6dB	3dB
Filter 2								
Filter Type	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ
Frequency	170Hz	2.67kHz	170Hz	2.67kHz	170Hz	2.67kHz	170Hz	2.67kHz
Q	1.58	3.6	1.58	3.6	1.58	3.6	1.58	3.6
Gain	5dB	4dB	5dB	4dB	5dB	4dB	5dB	4dB
Filter 3								
Filter Type	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ
Frequency	250Hz	3.74kHz	250Hz	3.74kHz	250Hz	3.74kHz	250Hz	3.74kHz
Q	3.6	4.8	3.6	4.8	3.6	4.8	3.6	4.8
Gain	-3dB	-2dB	-3dB	-2dB	-3dB	-2dB	-3dB	-2dB
Filter 4								
Filter Type	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ	PEQ
Frequency	2.13kHz	18.2kHz	2.13kHz	18.2kHz	2.13kHz	18.2kHz	2.13kHz	18.2kHz
Q	7.21	1.78	7.21	1.78	7.21	1.78	7.21	1.78
Gain	-4dB	3dB	-4dB	3dB	-4dB	3dB	-4dB	3dB
Filter 5								
Filter Type								
Frequency								
Q								
Gain								
Filter 6								
Filter Type		Hishelf		Hishelf		Hishelf		Hishelf
Frequency		8.79kHz		8.79kHz		8.79kHz		8.79kHz
Slope/Q		12dB		12dB		12dB		12dB
Gain		6dB		6dB		6dB		6dB
Compressor								
Threshold (dBu)								
Ratio (N to 1)								
Insert (In/Out)	out	out	out	out	out	out	out	out
Attack (us)								
Release (ms)								
Knee (Hard/Soft)								
Limiter								
Threshold (dBu)	2dBu	-2dBu	2dBu	-2dBu	2dBu	-2dBu	2dBu	-2dBu
Release (ms)	100ms	3ms	100ms	3ms	100ms	3ms	100ms	3ms

Notes: DN9848e and DN9848 with firmware V4.01 and higher have the ability to toggle between Q and BW for parametric filters. DN9848 with firmware V3.05 and older only use BW, use attached conversion spreadsheet to convert. Do not adjust output filters, use input filters for room and system tuning. DN9848 with firmware V3.05 and older has a maximum of 100ms release time for limiters. For these versions, change Subwoofer and LF release times to 100ms.

DN9848e BW to Q conversion

Q value	BW value
18.03	0.08
14.42	0.1
7.21	0.2
4.8	0.3
3.6	0.4
2.87	0.5
2.39	0.6
2.04	0.7

Q value	BW value
1.78	0.8
1.58	0.9
1.41	1
1.17	1.2
0.92	1.5
0.67	2
0.511	2.5
0.4	3