

Digital Micro Amplifiers

❖Micro Amplifier

AV-20D

AV-60S (not shown)

- Micro Class D amplifier for use in meeting/board rooms & signage applications
- UL 2043-rated for plenum installation
- Energy Star certified including Auto Off/Standby
- AV-20D: 20W x 2 @ 4 Ohms / 40W @ 8 Ohms in Bridge Mode
- AV-60S: 60W x 1 @ 4 Ohms or 70V
- Small size (approx. 6" x 6" x 1.75") allows convenient & flexible placement.
- Clip Limiter prevents distortion due to overload.
- Remote Volume Control port for use with 10kΩ pot



Micro Amplifiers Optional Accessories

❖Metal Pole Mount Bracket

MB-AV20PM



❖Metal Desk-mount Bracket

MB-DM820



❖Metal Rack Mount Kit

MB-AV20RM



❖Matching Transformer

MT-S0301



- 1 or 2 amplifiers are mountable in 1 unit

- The MT-S0301 allows for a 30W @ 70V output by connecting to the bridge output of the AV-20D.

*0dB = 1V, Reference = 1kHz

Specification

	AV-20D	AV-60S-AM
Power Supply	AC100V-240V, 50Hz/60Hz; AC inlet on rear panel	
Power consumption	Less than 1W: in standby mode Less than 10W: with No Signal Less than 60W: at rated output in all Channels	Less than 1W: power save mode; Less than 10W @ 70V, Less than 7W @ 4 Ohms: idle; Less than 85W @ 70V, Less than 110W @ 4 Ohms: rated output
Output	2 channel Speaker out: 15W @8 Ohm per each Channel; 20W @4 Ohm per each Channel BTL: 40W @8Ohm Terminal: Removable terminal block(4P) (rear panel) Screw-Lock type Connector	60W @ 4 Ohms, 60W @ 70V Speaker output, removable terminal block (2P)
Protection	Thermal protection (auto recovery) Short circuit protection (auto recovery) Over current protection (auto recovery) DC protection Power source protection (Circuit Breaker)	Thermal protection Over current protection
Input	Line 1 : -10dBV/-20dBV (switchable), 10kOhm, removable terminal block(3P)x2, balanced (transformer isolated) Line 2 : -10dBV/-20dBV (switchable), 10kOhm, 3.5mm mini phone jack, unbalanced Line 3 : -10dBV/-20dBV (switchable), 10kOhm, RCA pin jack (red & white), unbalanced	Line 1: -10/-20dB* (selectable), 10K Ohms, transformer-balanced, removable terminal block (3P)x2 Line 2: -10/-20dB* (selectable), 10K Ohms, unbalanced, 3.5mm stereo jack Line 3: -10/-20dB* (selectable), 10K Ohms, unbalanced, RCA jacks
Indication	Power LED (green); Signal LED L/R Ch (green x2); Peak LED L/R Ch (red x2); Protect LED (yellow)	Power LED (green); Signal LED (green); Peak LED (red); Protect LED (yellow)
Frequency Response	20Hz to 20kHz ±3dB	4 Ohms mode: 20Hz to 20kHz ±3dB 70V mode: 60Hz to 20kHz ±3dB (Line1 input with transformer: 100Hz to 20kHz)
THD+N	Less than 0.15%	
S/N	More than 74dB (B.P. filter: 20Hz-20kHz, A-weighted)	--
Tone Control	Bass: ±10dB at 100Hz, Treble: ±10dB at 10kHz	
Controls	Master volume control, Remote volume control, Base/Treble tone control, Bridge ON/OFF switch, Mono/Stereo switch, Input sensitivity switch (Line1, Line2, Line3)	Master volume control, Remote volume control, Base/Treble tone control, 70V/4ohm switch, Input sensitivity switch (Line1, Line2, Line3)
Temperature Range (Operation)	-10 to +40°C	
Dimensions	150 (w) x 44 (h) x 156 (d) mm (5.90" x 1.73" x 6.14")	
Weight	1.00 Kg (2.2 lbs)	1.12 Kg (2.5 lbs)
Accessories	Removable terminal plug (2P) x 1, Removable terminal plug (3P) x 2, Removable terminal plug (4P) x 1, AC power cord x 1, Rubber foot x 4, EMT adaptor plate x 1	Removable terminal plug (2P) x 2, Removable terminal plug (3P) x 2, AC power cord x 1, Rubber foot x 4, EMT adaptor plate x 1

Amplifier Selection Chart

Model Number	Power	Inputs				Outputs							Rack Ears
		Mic	Aux	Tel	Module	70V	25V	Record / Bridge / Line	Pre-amp	4 ohm	8 ohm	MOH	
A-5006	60W	2	--	--	--	Yes	--	--	--	Yes	--	--	Optional
A-5012	120W	2				Yes				Yes			Optional
MA-725F	250W x 4	2	--	--	--	Yes	--	Yes x 4	--	--	--	Yes	--
A-2240	240W	2	2	1	--	Yes	Yes	Yes	--	Yes	--	--	No
A-706	60W	6 (Mic or Line)	2	*1	1 (900 Series)	Yes	Yes	Yes	Yes	Yes	--	Optional Module	Optional MB-25-B
A-712	120W												
A-724	240W												
A-903MK2	30W	8 module slots / +2 slots *3			8 (900 Series)	Yes	Yes	Yes	Yes	Yes	Yes	Optional Module	Optional MB-25-B
A-906MK2	60W												Optional MB-35-B
A-912MK2	120W												
P-906MK2	60W	--	1	--	1 (900 Series)	Yes	Yes	--	--	Yes	Yes	Optional Module	Optional
P-912MK2	120W												
P-924MK2	240W												
W-906A	60W	6 module slots			6 (900 Series)	Yes	Yes	Yes	--	Yes	Yes	Optional Module	No
W-912A	120W												
AV-20D	20W x 2	--	3	--	--	--	--	--	--	Yes	Yes	--	Optional MB-AV20RM
AV-60S	60W x 1					Yes					--		
BA-235	35W	--	1	--	--	Yes	Yes	Yes	--	Yes	--	--	Optional MB-25B-BK x 1 MB-25B-J x 2
BA-260	60W												
BG-220	20W	1	2 (3)*2	--	--	Yes	Yes	Yes	--	Yes	--	Yes	Optional MB-25B-BK x 1 MB-25B-J x 2
BG-235	35W												
BG-2035	35W	1	2 (3)*2	1	1 (900 Series)	Yes	Yes	Yes	--	Yes	--	Yes	Optional MB-1000
BG-2060	60W						--						
BG-2120	120W						--						
BG-2240D	240W						--						
A-9060DHM2	60W x 2	Selectable 4 dual module slots	Selectable 4 dual module slots	--	8 (900 Series)	Yes	--	3 dual module slots	Yes	--	--	Yes	Yes Supplied
A-9120DHM2	120W x 2						--			--	--		
A-9060SM2	60W						Yes			Yes	Yes		
A-9120SM2	120W						Yes			Yes	Yes		
A-9240SHM2	240W						--			--	--		
P-9060DH	60W x 2	--	2	--	--	Yes	--	--	--	--	--	--	Yes Supplied
P-9120DH	120W x 2												
CA-115	15W	2	1	--	--	--	--	--	--	Yes	Yes	--	No
CA-130	30W												
CA-160	60W												
DA-250F	See DA power output chart below	--	4	--	--	--	--	--	--	Yes	Yes	--	Yes By Design
DA-250FH			4			Yes				--	--		
DA-250D			2			--				Yes	Yes		
DA-250DH			2			Yes				--	--		
DA-500F-HL			4			Yes				Yes	Yes		
DA-550F			4			--				Yes	Yes		

*1 Transformer-Isolation for Telephone Paging Applications (Input #1 is one of the 6 mic/line inputs); *2 Selectable; *3 With optional WE-2 expansion kit

DA Amplifier Power Output Chart	
Model	Power Output
DA-250D	2x 250W (4 ohms)
	2x 170W (8 ohms)
	1x 500W bridged (8 ohms)
DA-250DH	2x 250W (70V)
	1x 500W bridged (140V)
DA-250F	4x 250W (4 ohms)
	4x 170W (8 ohms)
	2x 500W bridged (8 ohms)

DA Amplifier Power Output Chart	
Model	Power Output
DA-250FH	4x 250W (70V)
	2x 500W bridged (140V)
DA-500F-HL	4x 500W (70V)
	2x 1000W bridged (140V)
	4x 550W (8 ohm)
	4x 100W (4 ohms)
DA-550F	2x 1100W (16 ohms)
	4x 550W (4 ohms)
	4x 350W (8 ohms)
	2x 1100W bridged (8 ohms)

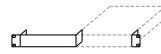
Optional Accessories Chart

Power Amplifier

A-5006
A-5012



MB-15B-BK



MB-15B-J



YA-920



Mixer Power Amplifiers

A-706
A-712
A-724



MB-25B



IT-450



YA-920



8-Channel Mixer Amplifier (UL version)

A-903MK2
A-906MK2
A-912MK2



MB-25B



YA-920



Micro Amplifier

AV-20D
AV-60S



MB-AV20PM AM



MB-AV20RM AM



MB-DM820 AM



MT-S0301

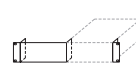


Power Amplifier

BA-235
BA-260



MB-25B-BK



MB-25B-J



BG-2000 Series

Mixer/Amplifiers

BG-2035, BG-2060,
BG-2120, BG-2240D



MB-1000



YA-920

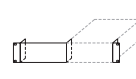


Mixer Amplifier

BG-220
BG-235



MB-25B-BK



MB-25B-J



WB-900B



Digital Power Amplifiers

DA Series



MT-251



Matrix Mixer Amplifier

MA-725F



WP-700-AM



Power Amplifier

(UL version)

P-906MK2
P-912MK2
P-924MK2



MB-25B



MB-35B



YA-902



In-Wall Amplifier

(UL version)

W-906A
W-912A



BX-9F



BX-9S



WE-2

