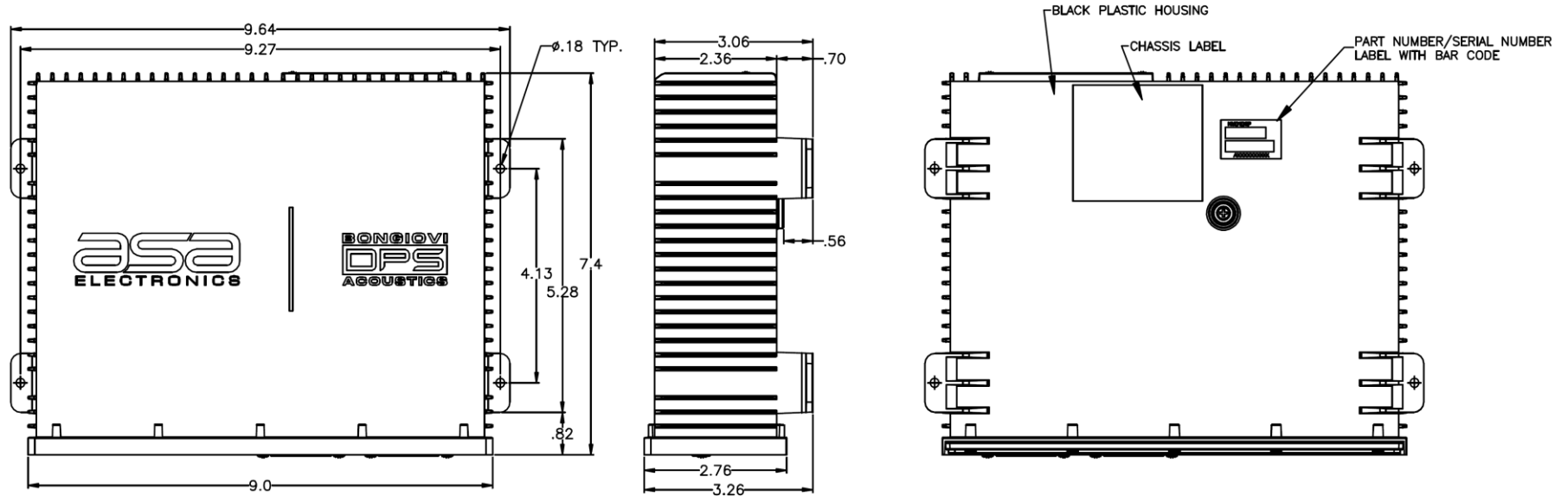


KMC1DSP – DSP, ZONE CONTROLLER FOR MASTERCRAFT



FEATURES:

- 4 Zone + Subwoofer Audio DSP Module
- Uses Bongiovi DPS Audio solution
- Communicates with external controller via JDAB
 1. Independent Volume controls for each zone and subwoofer
 2. Master Volume and Mute controls
 3. Bass/ Mid/ Treble controls (-/+3dB)
 4. Store up to 5 DSP profiles for recall.
- 2-Wire Power Supply Requirement (Switched +12VDC/ Ground)
- 4 Vrms differential stereo input
- All Zones and Subwoofer 5.5 Vrms differential output
- Compatible with Klipsch Marine Amplifiers
- iPX5 waterproof rated.
- 6-pin Waterproof Locking Audio connectors
- DSP and MCU Programmable via hidden USB port.

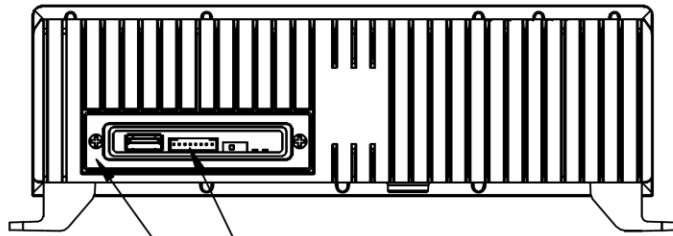
Specifications

General Specifications

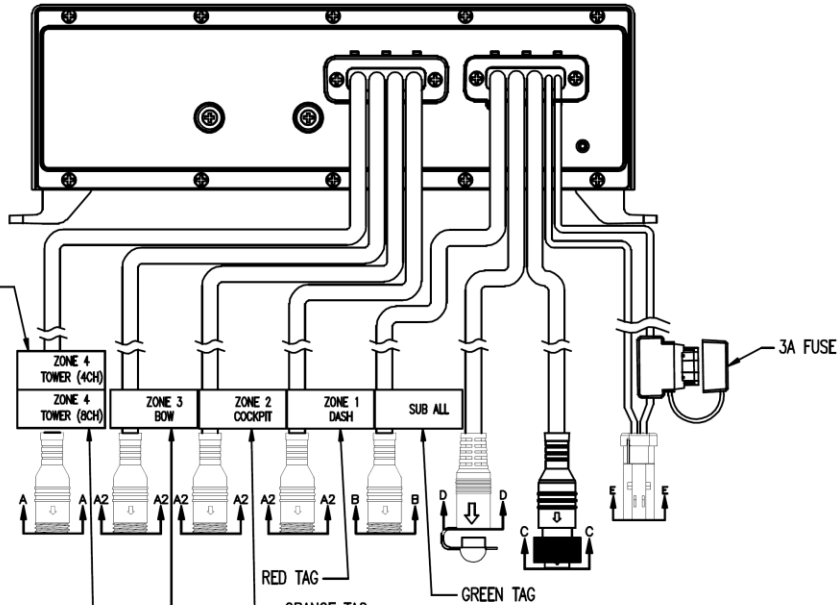
Power System	12VDC	
Operating Voltage Range	10V to 16V	
Current Draw @ 12V	Quiescent	0A
	Nominal	400 mA
	Maximum	1.0A
Operating Temperature Range	-4°F to 149°F	-20°C to +65°C
Storage Temperature Range	-22°F to 158°F	-30°C to +70°C
Maximum Relative Humidity	100%	
Overall Dimensions	7.4 x 9.0 x 3.3	
Product Weight (unpacked)	1.0 lbs	

Performance Specifications

Differential Audio Input	4.0 Vrms
Differential Audio Output	5.50 Vrms
Total Harmonic Distortion @ 5 Volts	0.1 %
Applied Test Suite	ASA ES0001
Regulatory Certification	FCC Part 15B; CE; RoHS



PROGRAMMING PORTS
AND SWITCHES
REAR PORTS COVER AREA



YELLOW TAG
(ON TOP)

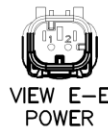
RED TAG

ORANGE TAG

GRAY TAG

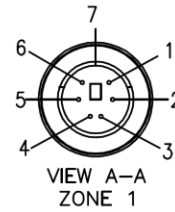
PURPLE TAG

3A FUSE



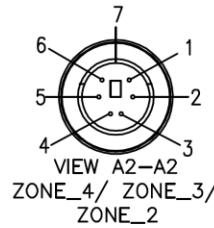
VIEW E-E
POWER

PIN NO.	WIRE COLOR	DESC
1	YELLOW	12V DC
2	BLACK	GND



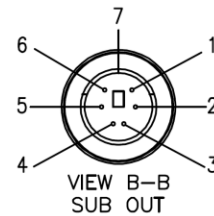
VIEW A-A
ZONE 1

FUNCTION	CONDUCTOR	COLOR	STYLE	ELECTRICAL
1	RIGHT -	24 AWG WHITE/BLACK STRIPE	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
2	RIGHT +	24 AWG WHITE		
3	MUTE	24 AWG BROWN	SINGLE	12VDC AMP MUTE
4	TURN-ON	24 AWG BLUE	SINGLE	12VDC AMP TRIGGER
5	LEFT +	24 AWG GRAY	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
6	LEFT -	24 AWG GRAY/BLACK STRIPE		
7	SHIELD	BRAIDED SILVER	QUAD	EM SHIELD



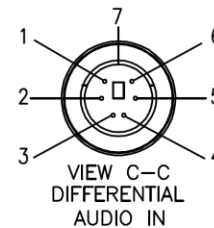
VIEW A2-A2
ZONE_4/ ZONE_3/
ZONE_2

FUNCTION	CONDUCTOR	COLOR	STYLE	ELECTRICAL
1	RHL -	24 AWG WHITE/BLACK STRIPE	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
2	RHL +	24 AWG WHITE		
3	MUTE	24 AWG BROWN	SINGLE	12VDC AMP MUTE
4	TURN-ON	24 AWG BLUE	SINGLE	12VDC AMP TRIGGER
5	RHL +	24 AWG GRAY	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
6	R-L -	24 AWG GRAY/BLACK STRIPE		
7	SHIELD	BRAIDED SILVER	QUAD	EM SHIELD



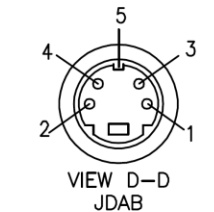
VIEW B-B
SUB OUT

FUNCTION	CONDUCTOR	COLOR	STYLE	ELECTRICAL
1	SUB -	24 AWG WHITE/BLACK STRIPE	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
2	SUB +	24 AWG WHITE		
3	MUTE	24 AWG BROWN	SINGLE	12VDC AMP MUTE
4	TURN-ON	24 AWG BLUE	SINGLE	12VDC AMP TRIGGER
5	SUB +	24 AWG GRAY	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
6	SUB -	24 AWG GRAY/BLACK STRIPE		
7	SHIELD	BRAIDED SILVER	QUAD	EM SHIELD



VIEW C-C
DIFFERENTIAL
AUDIO IN

FUNCTION	CONDUCTOR	COLOR	STYLE	ELECTRICAL
1	X -	24 AWG WHITE/BLACK STRIPE	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
2	X +	24 AWG WHITE		
3	MUTE	24 AWG BROWN	SINGLE	12VDC AMP MUTE
4	TURN-ON	24 AWG BLUE	SINGLE	12VDC AMP TRIGGER
5	Y +	24 AWG GRAY	TWISTED PAIR WITH FOL SHIELD	5V DIFFERENTIAL AUDIO
6	Y -	24 AWG GRAY/BLACK STRIPE		
7	SHIELD	BRAIDED SILVER	QUAD	EM SHIELD



VIEW D-D
JDAB

PIN NO.	DESCRIPTION
1	DC +12V (RED)
2	DATA (BLUE)
3	NO CONNECTION
4	POWER GROUND (BLACK)
5	GROUND SHIELD