KICKER®

51KPX500.1

500 Watt Class D Mono Amplifier, RoHS Compliant

Specifications

Electrical Parameters

Power (@14.4V, <1%THD+N)	**4Ω**	150W x 1
Power (@14.4V, <1%THD+N)	**2Ω**	300W x 1
Power (@14.4V, <1%THD+N)	**1Ω**	500W x 1
Dynamic Power (@14.4V, <10%THD+N)	**1Ω**	750W
Lowest Rated Impedance		1Ω
Signal to Noise Ratio (CEA)	**1W**	>-75dB
Signal to Noise Ratio	**Rated Power**	>-90dB
CMRR	**50Hz**	-40dB
Input Impedance		>20kΩ
Frequency Response		10Hz - 160Hz
Variable LoPass Filter	**24dB / Octave LR**	40Hz - 160Hz
Variable Subsonic Filter	**24dB / Octave LR**	10Hz - 40Hz
KickEQ™ Variable Bass Boost	**40Hz**	0dB - +6dB
Standby Current (Remote Off)		<2mA
Idle Current (Remote On)		<1.5A
Current Draw (Rated Power)		<60A
Remote Gain Attenuation		-26dB - 0dB
Low Level Input Sensitivity		125mV - 5V
High Level Input Sensitivity		1V - 40V
Under Voltage Protection		6.5V (warning at 10.5V)
Over Voltage Protection		16.0V

What's in the box?

- 51KPX500.1
- Signal Input Harness
- KPX500.1 Customer Information Card
- Hardware Pack - 3mm hex key & mounting hardware

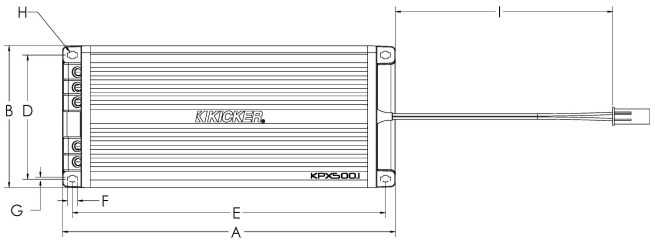
Physical Materials

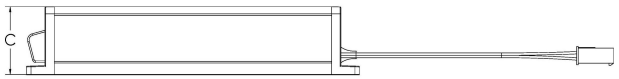
Heat Sink	Anodized Extruded Aluminum
End Caps	Painted Injection Molded ABS Plastic
Bottom Panel	Powder Coated Stamped Steel
Weather-resistant Plug	Injection Molded Rubber

Features

- **Conformal coated printed circuit board**
- **Weather-resistant design**
- **Fully Start/Stop Compliant - operational down to 6.5V**
- **Extremely compact footprint - perfect for space compromised vehicles**
- **FIT+ Differential Inputs - near universal compatibility with source units**

Unit Dimensions

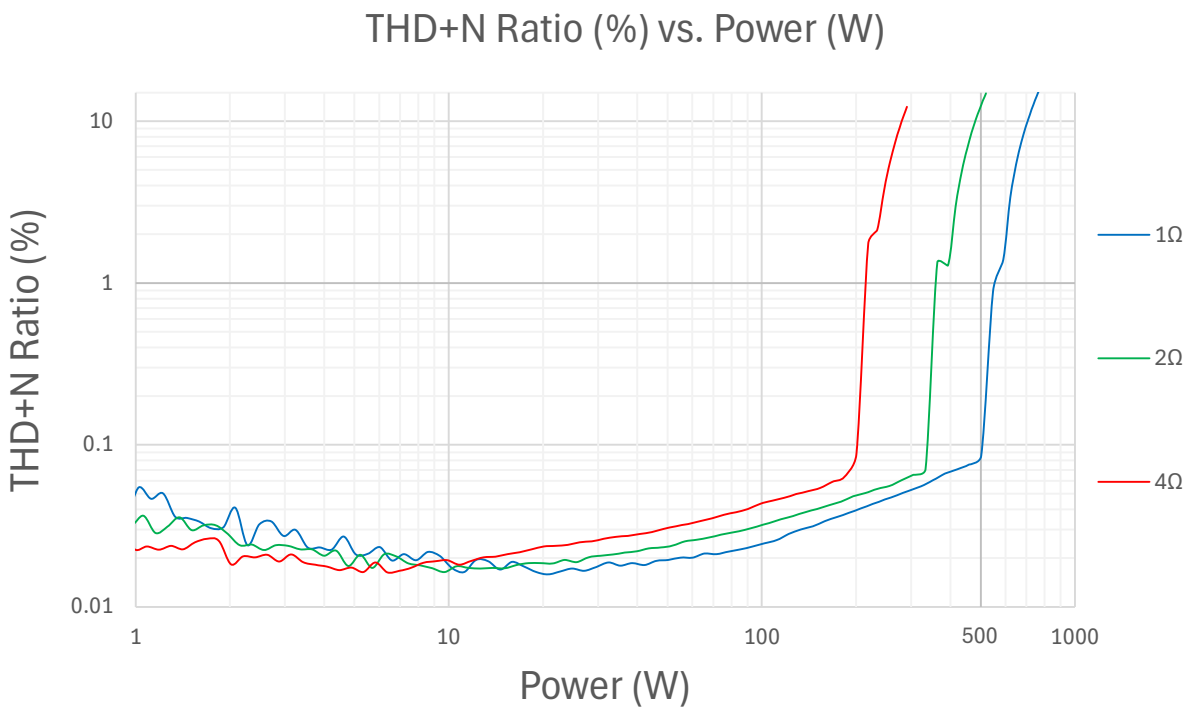




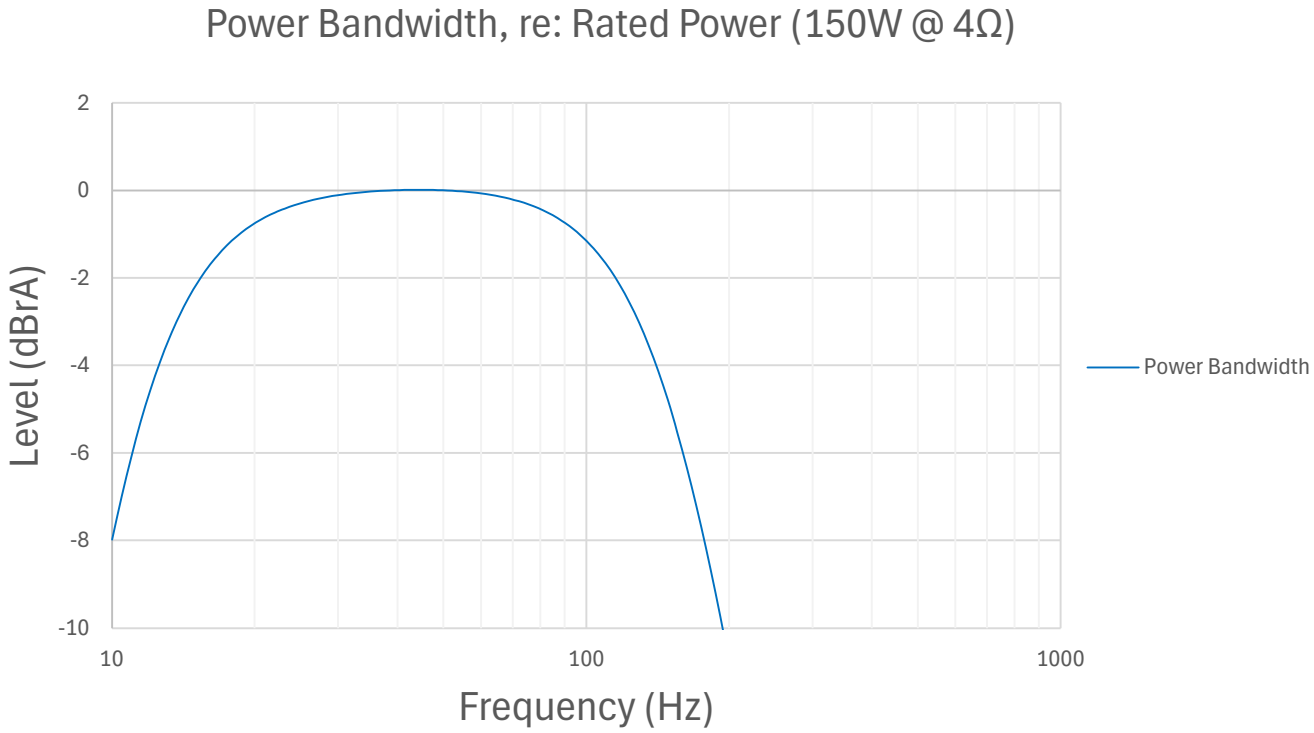
A - Overall Length	**8-1/2"**	**215.5mm**
B - Overall Width	**3-5/8"**	**92.0mm**
C - Overall Height	**1-11/16"**	**42.7mm**
D - Mounting Holes Location - Width	**3-1/8"**	**80.0mm**
E - Mounting Holes Location - Length	**8"**	**202.5mm**
F - Mounting Hole Length	**1/4"**	**6.5mm**
G - Mounting Hole Width	**1/8"**	**2.7mm**
H - Mounting Hole Diameter	**3/16"**	**5.0mm**
I - Input Harness Length	**5-9/16"**	**140.6mm**

Technical Graph Data

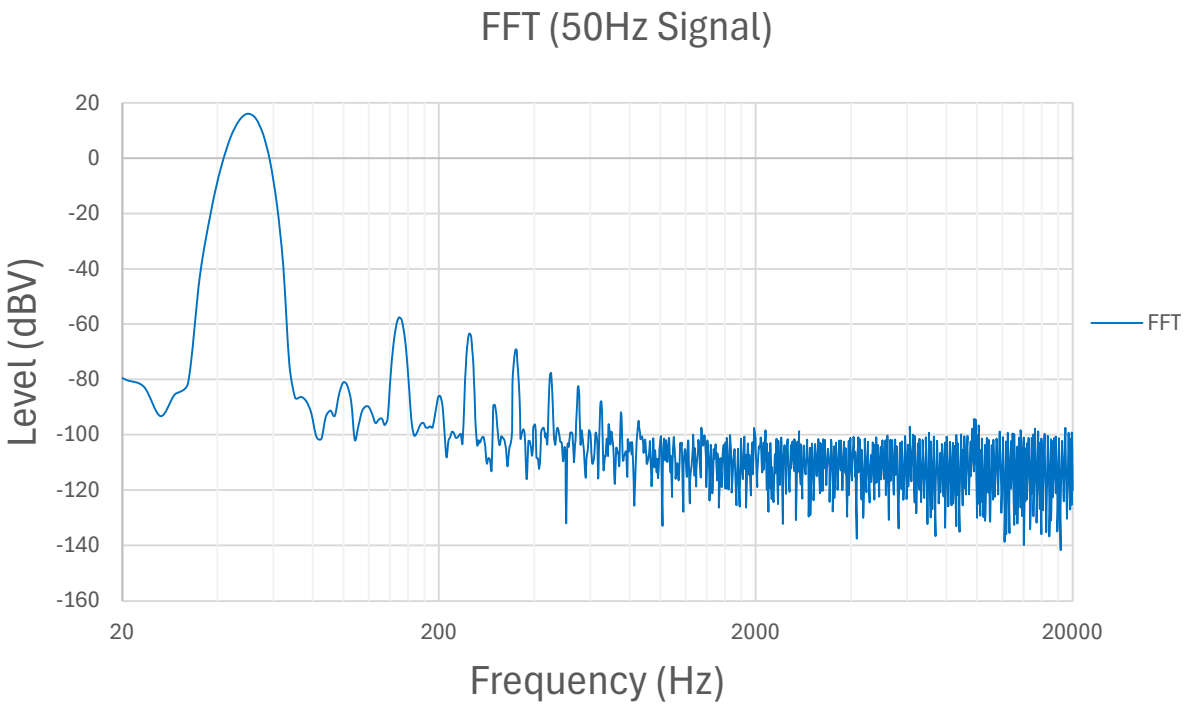
THD+N vs. Power (W) @14.4VDC



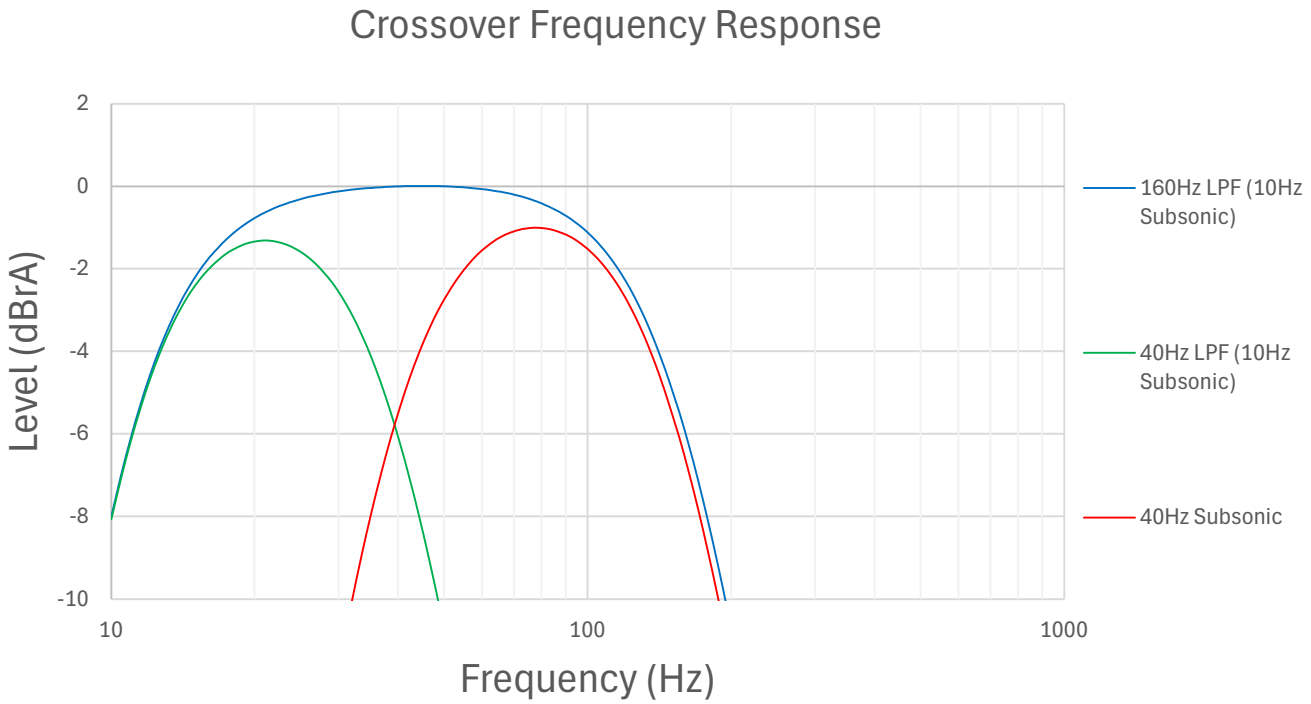
Power Bandwidth (4Ω) @14.4VDC



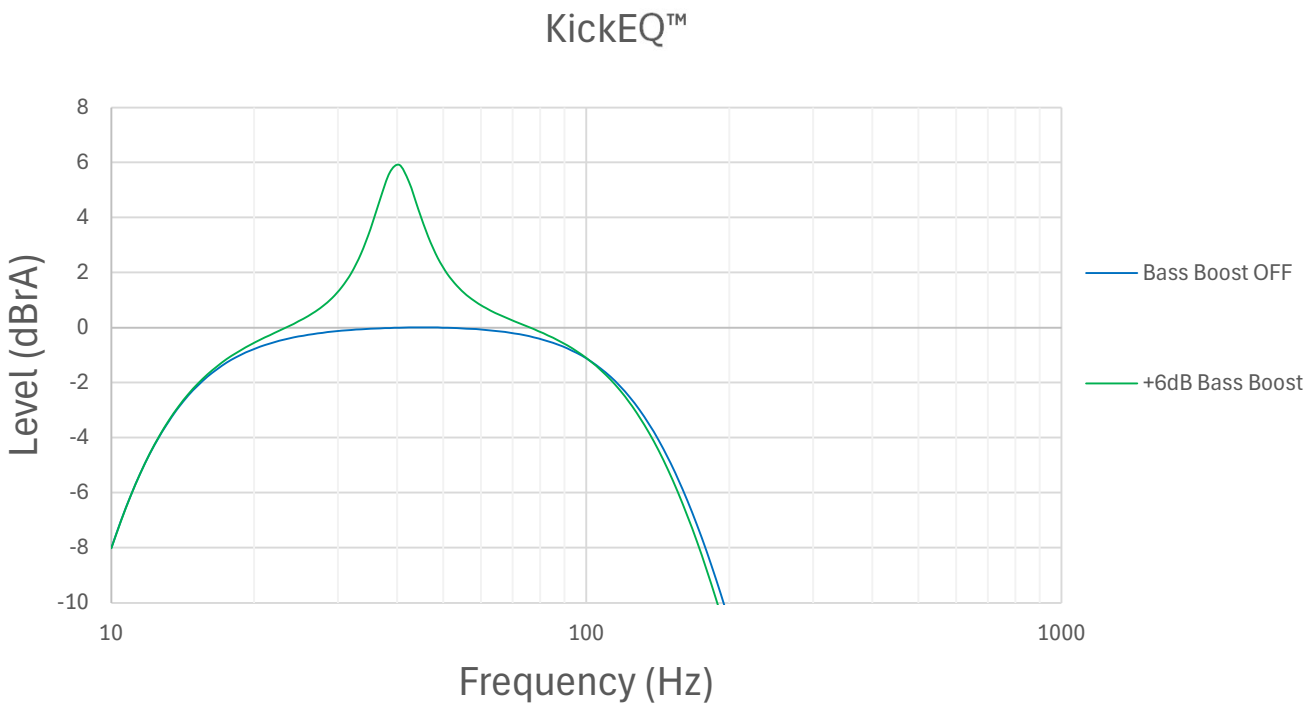
FFT



Crossover Frequency Response



KickEQ™


KickEQ™
8
6
4
2
0
-2
-4
-6
-8
-10
Level (dBrA)
10
100
1000
Frequency (Hz)
Bass Boost OFF
+6dB Bass Boost