

# reference series

amplifiers



car audio

## INFINITY® REFERENCE AMPLIFIERS

Looking for a more moving audio experience? Take Infinity® car audio for a ride. Innovative materials and breakthrough engineering have always put Infinity products out in front of the competition. So expect extreme output from Reference Series amps, but be prepared for accuracy and detail that may surprise you. There is no better way to make your car audio system stand up and deliver than by powering your speakers and subs with Infinity electronics.

 Infinity®

## CLASS D SUBWOOFER AMPS

Efficiency is the benefit of the Infinity Reference Series Class D subwoofer amplifiers. A higher percentage of the power the amp extracts from the car's charging system is converted into output to the speakers, and less is wasted as heat. That is really important if you're trying to provide power to a 1000-watt amplifier. Class D technology turns the analog input signal into a series of pulses that can be amplified more efficiently by transistors used as switches, rather than valves. They're either on and operating at their most efficient level, or they're off. The pulses are converted back into an analog signal by an output filter.

## CEA-2006-COMPLIANT

All Infinity amplifiers are tested in accordance with CEA-2006, which provides a testing procedure to help customers compare amplifiers accurately – apples to apples. Specs are based on industry-accepted standards, rather than on the whims of amplifier companies' marketing departments. Look for the CEA-2006 logo when comparing amplifiers, to be sure you're getting the power you're paying for.

## AUDIOPHILE-QUALITY FULL-RANGE AMPLIFIERS

Class AB full-range amplifiers offer audiophile-quality performance and the best compromise between efficiency, low distortion, maximum available headroom and output power.

## AMPS THAT DON'T BREAK

Infinity amplifiers are tested according to the strictest and most demanding reliability-testing regimen ever designed for car audio amplifiers. They are shaken, baked, frozen, dropped and shocked – all while they're operating. When they've passed all these tests, they are tested again. The result is a series of amplifiers that just don't break.

## DBO BASS-OPTIMIZATION CIRCUIT

provides superior control and adjustability, compared to traditional bass-boost. DBO is a 2nd order high-pass filter that can be adjusted between 20Hz and 80Hz. The boost (or Q) adjustment boosts the signal above the high-pass filter frequency. Used with a sealed box, it can help to increase output for more "fun" if it's set to about 45Hz. If it's used with a vented box, it should be set at or slightly below the tuned frequency of the box. That will prevent woofer unloading, and provide more output at the frequency where the box is tuned and the woofer's excursion is minimized – where it can handle more power.

## ONBOARD ELECTRONIC CROSSOVERS

Reference Series amplifiers include 2nd order (12dB/octave) slopes and are continuously variable from 32Hz to 200Hz.

## VARIABLE BASS-BOOST

provides up to 12dB of boost at 50Hz in the Reference Series full-range amplifiers.

## DIRECT-CONNECT TERMINALS

eliminate the need for additional solder-on or crimp-on terminals and provide an easy and reliable connection for power, ground and speaker wires.

## FULL-RANGE PREAMP OUTPUTS

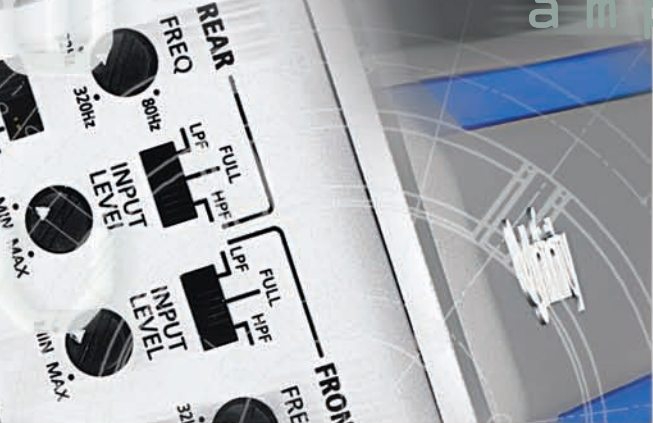
eliminate the need for signal splitters.

## INCLUDED REMOTE LEVEL CONTROL\*

The amount of bass in popular recordings differs greatly from track to track. Give your customer as much control as you see fit with the RLC. It varies the output of the amplifier from no output up to the maximum output level that you set with the input sensitivity control.



\*except 4-channel



475a

**4-Channel Full-Range Amplifier**

75 Watts RMS x 4 channels at 4 ohms and  $\leq 1\%$  THD + N  
 Signal-to-noise ratio: 85dBa (reference 1 watt into 4 ohms)  
 90 Watts RMS x 4 channels at 2 ohms, 14.4V supply and  $\leq 1\%$  THD + N  
 180 Watts RMS x 2 channels at 4 ohms, 14.4V supply and  $\leq 1\%$  THD + N  
 Dynamic power: 117 watts at 2 ohms  
 Effective damping factor: 6.3 at 4 ohms  
 Frequency response: 10Hz – 100Hz (–3dB)  
 Maximum input signal: 6V  
 Maximum sensitivity: 100mV  
 12dB built-in variable electronic crossover  
 Variable bass-boost (0 to +6dB @ 50Hz)  
 One pair full-range preamp outputs  
 Port for future accessory products  
 Dimensions (L x W x H):  
 14-3/16" x 9" x 2-11/16"  
 (360mm x 229mm x 68mm)



5350a

**5-Channel Amplifier**

50 Watts RMS x 4 channels and 150 watts RMS x 1 channel at 4 ohms and  $\leq 1\%$  THD + N  
 Signal-to-noise ratio: 85dBa (reference 1 watt into 4 ohms)  
 60 Watts x 4 channels, 300 watts x 1 channel at 2 ohms, 14.4V supply and  $\leq 1\%$  THD + N  
 Dynamic power: 89 watts x 4 and 332 watts x 1 at 2 ohms  
 Effective damping factor: 6.3 at 4 ohms  
 Frequency response: 10Hz – 100kHz (channels 1, 2, 3, 4), 10Hz to 302Hz (channel 5)  
 Maximum input signal: 6V  
 Maximum sensitivity: 100mV  
 12dB built-in variable electronic crossover  
 Variable bass-boost (0 to +6dB @ 50Hz)  
 Port for future accessory products  
 Remote bass-level control included  
 Dimensions (L x W x H):  
 16-9/16" x 9" x 2-11/16"  
 (421mm x 229mm x 68mm)



1300a

**Mono Subwoofer Amplifier**

200 Watts RMS x 1 channel at 4 ohms and  $\leq 1\%$  THD + N  
 Signal-to-noise ratio: 85dBa (reference 1 watt into 4 ohms)  
 300 Watts RMS x 1 channel at 2 ohms, 14.4V supply and  $\leq 1\%$  THD + N  
 Dynamic power: 342 watts at 2 ohms  
 Effective damping factor: 6.3 at 4 ohms  
 Frequency response: 11Hz – 330Hz (–3dB)  
 Maximum input signal: 6V  
 Maximum sensitivity: 100mV  
 12dB built-in variable low-pass electronic crossover  
 Variable bass-boost (0 to +6dB @ 50Hz)  
 Port for future accessory products  
 Remote bass-level control included  
 One pair full-range preamp outputs  
 Dimensions (L x W x H):  
 14-3/16" x 9" x 2-11/16"  
 (360mm x 229mm x 68mm)



1600a

**Mono Subwoofer Amplifier**

400 Watts RMS x 1 channel at 4 ohms and  $\leq 1\%$  THD + N  
 Signal-to-noise ratio: 85dBa (reference 1 watt into 4 ohms)  
 600 Watts RMS x 1 channel at 2 ohms, 14.4V supply and  $\leq 1\%$  THD + N  
 Dynamic power: 894 watts at 2 ohms  
 Effective damping factor: 6.3 at 4 ohms  
 Frequency response: 11Hz – 330Hz (–3dB)  
 Maximum input signal: 6V  
 Maximum sensitivity: 100mV  
 12dB built-in variable low-pass electronic crossover  
 Variable bass-boost (0 to +6dB @ 50Hz)  
 Port for future accessory products  
 Remote bass-level control included  
 One pair full-range preamp outputs  
 Dimensions (L x W x H):  
 14-3/16" x 9" x 2-11/16"  
 (360mm x 229mm x 68mm)



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