Audio Line Driver Comparison OutSmarts vs the competition

		IHMT.	IH.	22M2	DPU	DP1	
Output Noise	600Ω Bal. load	-101	-101	-93.4	-97*	-97*	dBu
Tames clipping into single-ended loads		Yes	Yes	No	No	No	
THD+N Balanced 1 kHz, Typical 20 kHz, Typical 20 kHz, Max. Single-ended 20 kHz, Typical 20 kHz, Max.	10 V _{RMS} 600Ω	0.0007 0.002 0.005 0.003 0.006	0.0007 0.002 0.005 0.003 0.006	0.0008 0.004 No Spec 0.008** No Spec	0.0005 0.0014 No Spec 0.01** No Spec	0.0005 0.0014 No Spec 0.01** No Spec	%
Slew Rate		15	15	15	15	15	V/µs
Gain	$\begin{array}{l} R_L = 100 k\Omega \\ R_L = 600 \Omega \end{array}$	+6.0 +5.3	+6.0 +5.3	+6.7 +6.0	+6.7 +6.0	+6.7 +6.0	dB
Packaging Options	DIP-8 SO-16 wide SO-8 Low θ_{JA} QSOP-16	$ \begin{array}{c} \sqrt{} \\ \sqrt{} \\ \sqrt{} \\ \end{array} $	 √				

*datasheet says -98 dBu; **Not specified by TI or ADI, figures based on THAT measurements



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OutSmarts[™] Behaves Clipping into single-ended loads





ctive Output Voltage (5 V/DIV)

SSM2142 Misbehavior



Active Output Voltage (5 V/DIV)

Grounded Output Current (20 mA/DIV)



DRV134/135 Misbehavior

Grounded Output Current (20 mA/DIV)

Note: $f_{IN} = 1 \text{ kHz}$, $Z_{LOAD(+)} = 10 \text{ k}\Omega$, $Z_{LOAD(-)} = 0 \Omega$