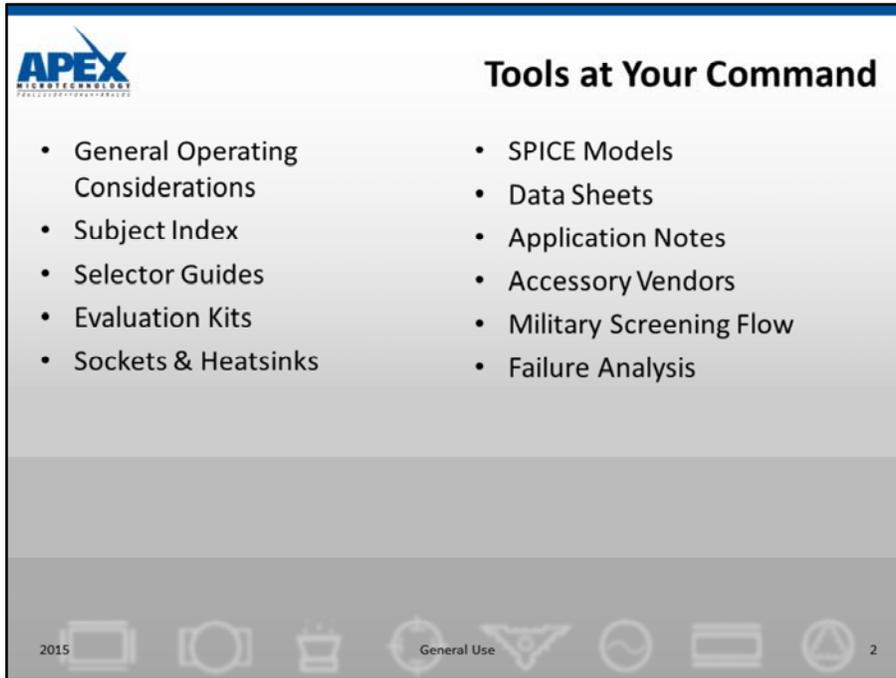




Tech Seminar Workbook

Conclusion





The Apex handbook is the world's most complete reference work when it comes to challenging power designs. Roughly a quarter of the book is application notes, a good source of "how to" and "how not to" tips and circuit ideas. Format is your choice; hard copy, CD-ROM or on line with all the latest and greatest.

Unless you're an old hand at power design, check out AN1, General Operating Considerations. It is the most important document in the entire book. While there is no substitute for actually reading it, at a very minimum, take note of the paragraph titles and look at the pictures.

In the back of the book is a Subject Index which may just point you to the specific information you need. Here's a sample of entries: Package drawings and marking information (Where's pin 1?), Load lines, Feedback zero compensation and Thermal capacity. You can also find many phone numbers, fax numbers and if you are inclined to visit Apex, a map.



Beat the Discrete Approach

- Time to market value?
 - Lost sales – engineering costs
- Value of 8 solder joints vs. 80?
 - Size, weight
 - Reliability
 - First pass yield, troubleshoot, rework, retest times
 - Field failure rate & serviceability
 - Logistics costs
 - Component spec, buying, stocking, managing obsolescence

2015

General Use

3

Response to these design issue questions vary an amazing amount, both in time spent on the subject and in answers to specific items. Apex products are used in products where meeting the Christmas buying season is paramount, where cutting machine size by 2 doubles the value of the product and remotely located equipment where field failures would be a disaster.

This seminar has covered many of the technical issues involved with using hybrid power products but it remains your engineering challenge to integrate the various advantages into your business environment. Perhaps a few moments spent here will enhance value of your final product.



USE APEX APPLICATIONS SUPPORT!

- For full selection of Apex Application Note Library visit <https://www.apexanalog.com/support-3/apex-application-note-library/>

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Apex Application Note Library

Apex Microtechnology Application Notes are written to address specific types of applications and circuit design challenges rather than specific products. Can't find the answer to your technical question? Contact the Apex Applications Engineering team.

Apex Operational Amplifiers

Document	Date
AN23 Heat Sinking Options and Techniques(PDF, AN23UREV: 1023 Kb)	10/2012
AN01 General Operating Considerations(PDF, AN01UREV: 995 Kb)	10/2012
AN02 Optoelectronic Position Controls(PDF, AN02UREV: 291 Kb)	10/2012
AN03 Bridge Circuit Drive(PDF, AN03UREV: 354 Kb)	10/2012
AN05 Precision Magnetic Deflection(PDF, AN05UREV: 369 Kb)	10/2012
AN06 Applying the Super Power PA01(PDF, AN06UREV: 433 Kb)	10/2012
AN07 Programmable Power Supplies(PDF, AN07UREV: 344 Kb)	10/2012
AN08 Optimizing Output Power(PDF, AN08UREV: 351 Kb)	10/2012
AN09 Current Limiting(PDF, AN09UREV: 343 Kb)	10/2012
AN10 Op Amp Output Impedance(PDF, AN10UREV: 191 Kb)	10/2012
AN11 Thermal Techniques(PDF, AN11UREV: 436 Kb)	10/2012
AN13 Voltage to Current Conversion(PDF, AN13UREV: 265 Kb)	08/2013
AN14 Power Booster Applications(PDF, AN14UREV: 321 Kb)	10/2012
AN16 SOA Advantages of MOSFETS(PDF, AN16UREV: 287 Kb)	10/2012
AN17 Wideband Low Distortion Techniques(PDF, AN17UREV: 287 Kb)	10/2012
AN19 Stability for Power Amplifiers(PDF, AN19UREV: 535 Kb)	08/2013
AN20 Bridge Mode Operation of Power Amplifiers(PDF, AN20UREV: 395 Kb)	10/2012
AN01 Single Supply Operation of Power Amplifiers(PDF, AN01UREV: 480 Kb)	10/2012
AN22 SOA and Load Lines(PDF, AN22UREV: 424 Kb)	10/2012
AN23 Heat Sinking Options and Techniques for Thermally Enhanced SMT Packages(PDF, AN23UREV: 1023 Kb)	10/2012
AN24 Brush Type DC Motor Drive(PDF, AN24UREV: 241 Kb)	10/2012
AN25 Driving Capacitive Loads(PDF, AN25UREV: 1362 Kb)	10/2012
AN26 Parallel Connection(PDF, AN26UREV: 274 Kb)	10/2012
AN29 Proper Analog Wiring of Power Amplifiers(PDF, AN29UREV: 232 Kb)	10/2012
AN01 Basic Op Amp Theory and Practice(PDF, AN01UREV: 563 Kb)	10/2012
AN36 Surface Mounting for Power/SIP Package(PDF, AN36UREV: 201 Kb)	10/2012
AN43 Accessories Information(PDF, AN43UREV: 639 Kb)	10/2012
AN44 Driving Piezoelectric Actuators(PDF, AN44UREV: 712 Kb)	10/2012
AN47 Techniques for Stabilizing Power Operations(PDF, AN47UREV: 10/2012)	10/2012

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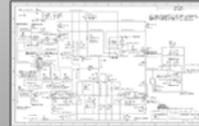


Value Added

- Worldwide recognition for our analog expertise
 - Customer presentations and application seminars
 - Schematic and layout reviews
 - Application notes
- Short design cycle time
 - Save up to two years of design time by selecting an off-the-shelf Apex product...when time-to-market is critical!
- High complexity
 - One component vs full BOM list
- Long product lifetime



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2015

General Use

5

The Apex brand is synonymous with power analog. We understand that many analog designs are not trivial and that comprehensive technical expertise is required for higher end power amplifier designs. Dedicated trainings, seminars, schematic reviews and a library of applications are available from Apex to reduce the possibility of errors. Apex precision power products provide complex circuit designs in a single package, enabling high density designs with a reduced time to market. We serve markets that require a long term source of supply. This is reflected in the extensive lifetimes of our products and the lengthy tenure of our customer relationships.



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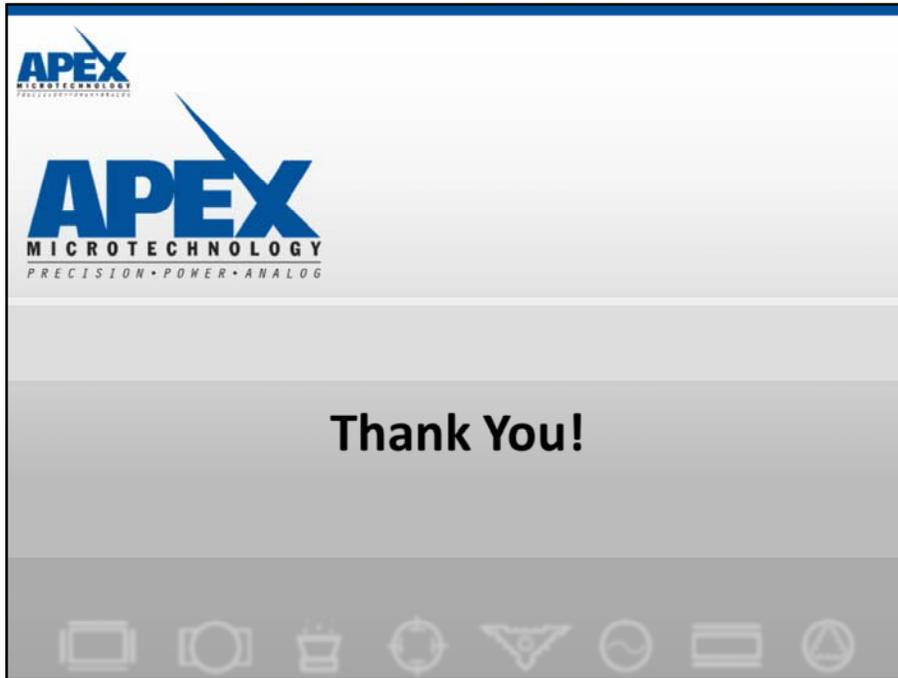
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So think of Apex Microtechnology the next time you are challenged with a power analog design project. Remember, Apex is not going to be just another supplier. Apex gives you access to leading edge analog solutions and technical support excellence that will prove to be instrumental to the success of your project. Contact us at sales@apexanalog.com to get started.