

CONCLUSION





Tools at Your Command

- General Operating Considerations
- Subject Index
- Selector Guides
- Evaluation Kits
- Sockets & Heatsinks
- SPICE Models
- Data Sheets
- Application Notes
- Accessory Vendors
- Military Screening Flow
- Failure Analysis

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

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://apexanalog.com/support/app_note_library.html

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

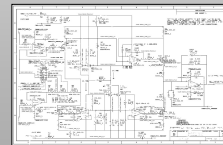
AN01 General Operating Considerations
AN02 Optoelectronic Position Control
AN03 Bridge Circuit Drives
AN05 Precision Magnetic Deflection
AN06 Applying the Super Power PA03
AN07 Programmable Power Supplies
AN08 Optimizing Output Power
AN09 Current Limiting
AN10 Op Amp Output Impedance
AN11 Thermal Techniques



- 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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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.



The image is a promotional graphic for Apex Microtechnology. At the top, there is a blue horizontal bar containing several white icons representing various engineering and manufacturing processes: a monitor, a camera, a gear, a target, a level, a sine wave, a document, and a recycling symbol. Below this bar, the Apex Microtechnology logo is displayed on the left, featuring the word "APEX" in large, bold, blue letters with a white diagonal line through the 'X', and "MICROTECHNOLOGY" in smaller blue letters below it. Underneath the logo, the tagline "PRECISION • POWER • ANALOG" is written in a small, blue, sans-serif font. To the right of the logo, the text "Hungry for More Information?" is written in a large, bold, blue font. Below this, there are two columns of text. The left column is headed "Corporate Headquarters:" and lists the address "5980 N Shannon Rd", "Tucson, AZ 85741, USA", the phone number "Phone +1 (520) 690-8600", the email "Email: info@apexanalog.com", and the website "www.apexanalog.com". The right column is headed "Sales Contacts:" and contains the text "To find Apex's authorized distribution partners and local sales representation please visit our website at:" followed by the URL "[www.apexanalog.com/company/apex_sales.html](\"http://www.apexanalog.com/company/apex_sales.html\")". At the bottom of the graphic, there is a horizontal strip of eight small images showing various industrial and technological scenes, including a satellite, a factory, a welding process, a circuit board, a mechanical part, a laboratory setting, a helicopter, and a rocket launch.

APEX
MICROTECHNOLOGY
PRECISION • POWER • ANALOG

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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.