SURFBOARDSTM SURFACE MOUNT UNIVERSAL BOARDST

THE BREADBOARDING MEDIUM FOR SURFACE MOUNT

SEE OUR APPLICATION NOTE SM-EZ-101 FOR INFORMATION ON BASIC ASSEMBLY TECHNIQUES

# SURFNOTES

BULLETIN SP-104

## PRACTICAL SURFACE MOUNT CIRCUIT APPLICATIONS USING SURFBOARDS

#### **CUSTOM NETWORKS** TO YOUR RUILD SPECIFICATIONS

### SURFBOARD 6000 AND 6100 SERIES PROVIDE THE PERFECT PLATFORMS

With SURFBOARDS you can build a wide range of different surface mount based network configurations. Your networks can incorporate the component types and values for your specific need. Many times it is possible to also include additional devices on the same module and increase packaging density even further. While a wide range of standard commercial networks are available, they are somewhat limited to a few general types with a limited choice of component values. Surfboards are the perfect solution for building prototype and short run production custom networks to your specifications, and the S.I.P. (single in line) pins on Surfboards will make your custom networks compatible with breadboards or sockets.

#### A FEW BASIC NETWORK CIRCUITS AND SURFBOARD ASSEMBLY LAYOUT CONCEPTS



LINE TERMINATOR CIRCUIT



RESISTOR LADDER NETWORK



6000 **TYPE** 

EXAMPLE:

4 easy foil modifications.

BUSSED ARRAY



6100 TYPE ISOLATED ARRAY

A WIDE RANGE OF MODELS ARE AVAILABLE IN THE 6000 AND 6100 SERIES. SEE OUR 6000 SERIES DATA SHEET FOR AVAILABLE PIN AND FOIL CONFIGURATIONS.





EXAMPLE: Ouad voltage divider network built on Surfboard model 6112





As you can see, the universal foil structures offer a wide range of assembly options. The gaps between foils permit mounting of various device sizes such as 0805, 1206, mini-melf, etc. Simple foil modifications and jumpers expand the assembly options for Surfboards. These examples show only a few of the many possibilities for Surfboard based surface mount networks.

#### PLEASE SEE APPLICATION NOTE SM-EZ-101

For information regarding Soldering, Simple foil modifications, and other usefull information.

The information given herein is believed to be accurate and is given in good faith, however Capital Advanced Technologies Inc. assumes no responsibility for the use of any information given. It is the readers responsibility to determine if any suggestions or information given is appropriate for any particular use, and if such use infringes copyrights, patents, or any other rights of others. Capital Advanced Technologies, Inc. shall not be held liable for damages direct or consequential arising from the use of information given herein. COPYRIGHT 1994, CAPITAL ADVANCED TECHNOLOGIES.INC.

# CAPITAL ADVANCED TECHNOLOGIES, INC. 309-A VILLAGE DRIVE, CAROL STREAM, IL. 60188