



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# SURFBOARDS®



THE BREADBOARDING MEDIUM FOR **SURFACE MOUNT**™

## 33000 SERIES APPLICATION SPECIFIC ADAPTERS

**IDS33117**  
REV 1-2012

MODEL **33117**

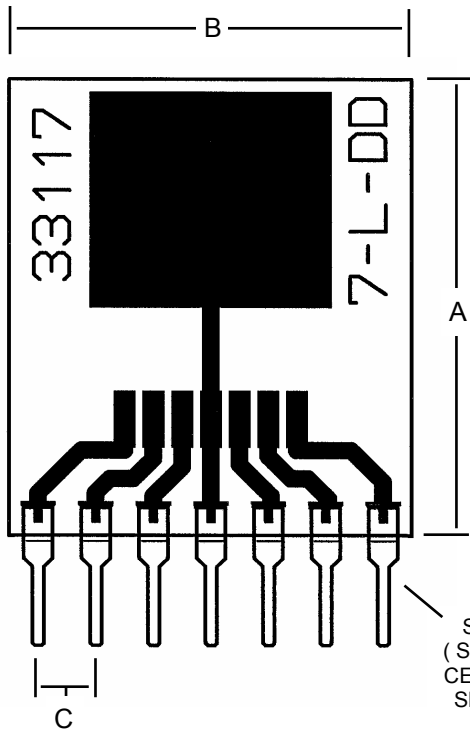
ACCEPTS  
THESE  
DEVICES



PARTIAL  
LISTING

**TO-263 7 LEAD  
7- LEAD DD PKG.  
MICREL SPAK-07L  
ON SEMI D2PAK 7 LEAD**

ALWAYS CONSULT DEVICE DATA SHEET TO INSURE PROPER FIT



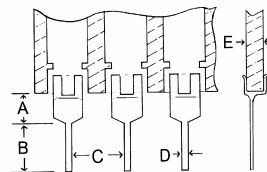
PINS ON .1 in. CENTERS  
PROVIDE COMPATIBILITY  
WITH BREADBOARDS AND  
SOCKETS.

USE FOR PROTOTYPING,  
DEVICE EVALUATION OR  
TEST, SMD TO THROUGH  
HOLE CONVERSION.

**NOTE: CIRCUIT FOILS AND  
OUTPUT PINS MAY NOT BE  
SUITABLE FOR OPERATION  
AT HIGHER RATED DEVICE  
CURRENTS. EXTREME  
TEMPERATURE RISE MAY  
CAUSE FAILURE.**

SINGLE-IN-LINE  
(SIP) PINS ON .1 in  
CENTERS. SEE PIN  
SPECIFICATIONS

### PIN SPECIFICATIONS / TOLERANCES



In Inches  
A = .062 +/- .006  
B = .130 +/- .010  
C = .100 +/- .005  
D = .020 +/- .004  
E = .031 +/- .005

FIG.	INCHES	MM	NOTE:
A	.800	20.32	BOARD HEIGHT +/- .5mm .020in.
B	.700	17.78	BOARD WIDTH +/- .5mm .020in.
C	.100	2.54	SIP PIN SPACE +/- .20mm .008in.
D	.625	15.87	PAD ( DEVICE ) MAX
E	.050	1.27	DEVICE LEAD PITCH
F	.100	2.54	PAD LENGTH
G	.035	.889	PAD WIDTH
H	.150	3.81	GAP



### BOARD SPECIFICATIONS

**BOARD MATERIAL:** .8mm, +/- .13mm .031in +/- .005 in.  
Thick G-10 FR-4 Glass Epoxy or equivalent.  
**CIRCUITS:** 1 oz. Copper with RoHS compliant Lead  
Free solder coating. Patten Position on board +/-  
.5mm .020in.

**TOLERANCES:** If not noted are +/- 20%. Nominal values are given.  
Controlling unit is Millimeters. Values rounded to nearest decimal. Slight  
Variations due to manufacturing process can occur.

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