

SURFBOARDS[®] by CAPITAL



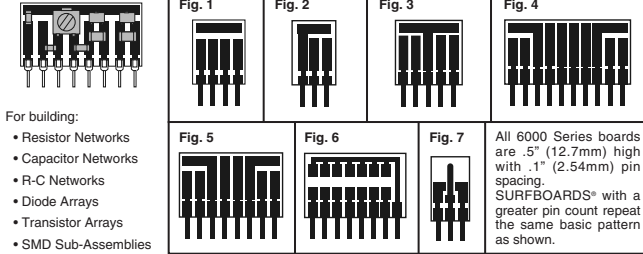
The Surfboard Concept: The concept behind SURFBOARDS is elegantly simple. Many models incorporate foil patterns that are designed to accommodate a wide variety of component mounting footprints. SURFBOARD[®] models for SOICs and PLCCs provide standard mounting footprints for the IC and depending on the model chosen, will include a prototyping area for additional components or provide a direct pin-out. Most SURFBOARD[®] models feature SIP (single in line) pins that make

prototyping and interfacing with other circuits easy.
Specifications: • Material: G-10 FR-4 Fiberglass laminate, 1oz. Cu. .032" (.81mm), Thickness ±.005" (±.13mm) • Finish: Level 60/40 Solder alloy • S.I.P. Pins: On applicable models. Soldered on .100" (2.54mm) centers. SURFBOARDS[®] can be hand soldered and are compatible with most industrial soldering processes. (Suggested soldering and assembly guidelines included).

The universal circuit patterns allow for the mounting of 0603, 0805, 1206 and mini-melf packages as well as a wide variety of 3 terminal devices.



6000 Series for Discrete Devices — .1" (2.54mm) Pin Spacing



- For building:
- Resistor Networks
 - Capacitor Networks
 - R-C Networks
 - Diode Arrays
 - Transistor Arrays
 - SMD Sub-Assemblies

All 6000 Series boards are .5" (12.7mm) high with .1" (2.54mm) pin spacing. SURFBOARDS[®] with a greater pin count repeat the same basic pattern as shown.

Fig.	No. of Pins	Digi-Key Part No.	Pricing 1 10
SURFBOARDS[®] for Discrete Components			
1	4	6004CA-ND	1.72 13.14
	6	6006CA-ND	2.04 15.66
	7	6007CA-ND	2.28 17.46
	8	6008CA-ND	2.51 19.26
	10	6010CA-ND	3.08 23.58
	12	6012CA-ND	3.67 28.08
2	3	6103CA-ND	1.48 11.34
	6	6106CA-ND	2.04 15.66
	9	6109CA-ND	2.63 20.16
	12	6112CA-ND	3.67 28.08
	15	6115CA-ND	4.23 32.40

◆ RoHS Compliant

Master Assortment Kit for Discretes: The MK-6000 assortment contains 2 each of all 23 models in the 6000 series of SURFBOARDS[®] for discrete components.
MK-6000CA-ND \$99.00

Fig.	No. of Pins	Digi-Key Part No.	Pricing 1 10
3	5	6405CA-ND	1.93 14.76
	10	6410CA-ND	3.08 23.58
	15	6415CA-ND	4.23 32.40
4	10	6510CA-ND	3.08 23.58
	20	6520CA-ND	5.17 39.60
5	8	6808CA-ND	2.51 19.26
	16	6816CA-ND	4.11 31.50
	8	6908CA-ND	2.51 19.26
	16	6916CA-ND	4.11 31.50

SURFBOARDS[®] for SOT-89 — RoHS Compliant

Fig.	No. of Pins	Digi-Key Part No.	Pricing 1 10
7	3	6303CA-ND	1.48 11.34
	6	6306CA-ND	2.04 15.66
	9	6309CA-ND	2.63 20.16

9000 Series for ICs

Build • prototype circuits • Evaluate ICs easily • Build circuit upgrades • Adapt SMD to thru-hole

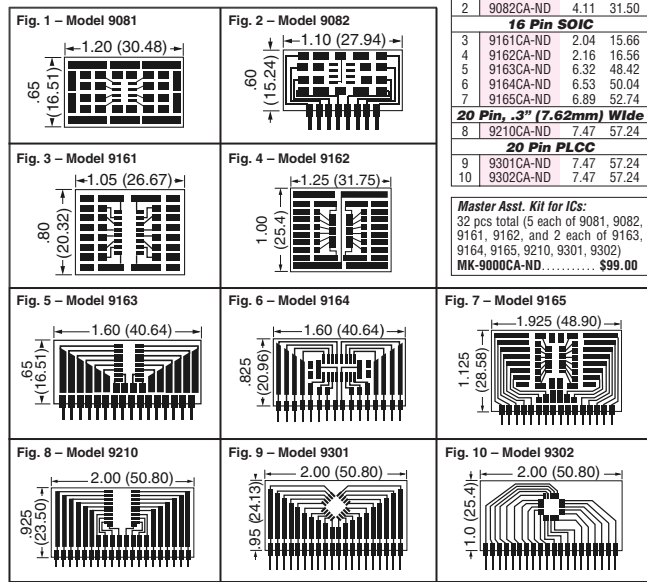


Fig.	Digi-Key Part No.	Pricing 1 10
8 Pin SOIC		
1	9081CA-ND	1.60 12.24
2	9082CA-ND	4.11 31.50
16 Pin SOIC		
3	9161CA-ND	2.04 15.66
4	9162CA-ND	2.16 16.56
5	9163CA-ND	6.32 48.42
6	9164CA-ND	6.55 50.04
7	9165CA-ND	6.89 52.74
20 Pin .3" (7.62mm) Wide		
8	9210CA-ND	7.47 57.24
20 Pin PLCC		
9	9301CA-ND	7.47 57.24
10	9302CA-ND	7.47 57.24

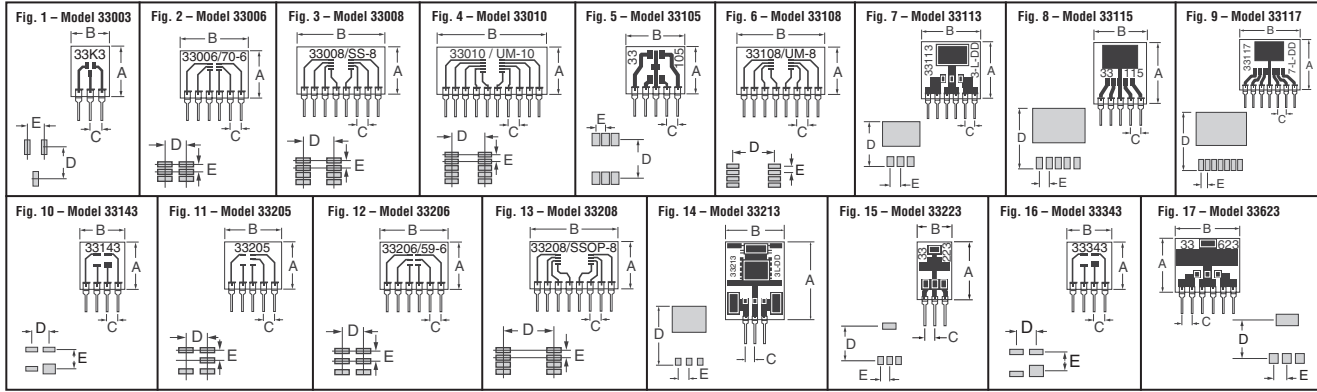
Master Assmt. Kit for ICs:
 32 pcs total (5 each of 9081, 9082, 9161, 9162, and 2 each of 9163, 9164, 9165, 9210, 9301, 9302)
MK-9000CA-ND \$99.00

SURFBOARDS[®] by CAPITAL



Application-Specific Adapters

- Accept Wide Range of Surface Mount Discrete Semiconductors and ICs
- Provide Convenient Medium for Prototyping, Test, and Development



The 33000 Series of Surfboards[®] are application-specific adapters that convert surface mount component footprints to Single-In-Line (SIP) format. The boards feature pre-installed pins on .100" (2.54mm) centers making them compatible with conventional breadboards, solderless breadboards, and sockets. The SIP format provides ease of signal probing as well as higher densities when prototyping. Models are available to accept a wide range of surface mount semiconductors and integrated circuits. Models 33113 and 33623 feature two SIP pins for each pad for higher current applications. Model 33213 features large soldering pads as connection points and SIP pins for measuring purposes. Boards are .031" ± .005" (.79mm ± .13mm) thick FR-4 and feature solder-coated 1-oz. Circuit Foils that can be hand-soldered or soldered by most conventional processes. SIP pins are soldered in place on .100" (2.54mm) centers. All boards feature solder mask to limit flow of solder to pad area and aid assembly. Just add parts and plug in.

Fig.	Dimensions — Inch (mm)						SIP Pins	Accepts These Devices	Digi-Key Part No.	Pricing 1 10
	A	B	C	D	E					
1	.400 (10.16)	.300 (7.62)	.100 (2.54)	.080 (2.03)	.0512 (1.30)		SC-70-3, SOT-323, NEC Pkg-30	33003CA-ND	1.01 7.74	
2	.400 (10.16)	.600 (15.24)	.100 (2.54)	.090 (2.28)	.0256 (.650)		SC-70-6, SOT-363	33006CA-ND	2.07 15.84	
3	.400 (10.16)	.800 (20.32)	.100 (2.54)	.180 (4.57)	.0375 (.9530)		SuperSOT-8™ (Fairchild)	33008CA-ND	2.80 21.42	
4	.400 (10.16)	1.0 (25.4)	.100 (2.54)	.200 (5.08)	.0197 (.500)		Micromax-10 (Maxim)	33010CA-ND	3.22 24.86	
5	.400 (10.16)	.500 (12.7)	.100 (2.54)	.165 (4.19)	.060 (1.50)		SOT-89-5	33103CA-ND	1.81 13.86	
6	.400 (10.16)	.800 (20.32)	.100 (2.54)	.200 (5.08)	.0256 (.650)		MSOP-8, TSSOP-8, Micromax-8 (Maxim) Micro-8 (Int'l Rect.), Mini SO-8 (Burr-Brown)	33108CA-ND	2.80 21.42	
7	.800 (20.32)	.600 (15.24)	.100 (2.54)	.625 (15.87)	.100 (2.54)		TO-263AB, 3-Lead D-Pkg	33113CA-ND	2.80 21.42	
8	.800 (20.32)	.500 (12.70)	.100 (2.54)	.625 (15.87)	.067 (1.70)		5-Lead DD Pkg., Surface Mount Device	33115CA-ND	3.27 18.18	
9	.800 (20.32)	.700 (17.78)	.100 (2.54)	.625 (15.87)	.050 (1.27)		7-Lead DD Pkg., Surface Mount Device	33117CA-ND	3.22 24.66	
10	.400 (10.16)	.400 (10.16)	.100 (2.54)	.100 (2.54)	.078 (1.99)		SOT-143, Surface Mount Device	33143CA-ND	1.53 11.70	
11	.400 (10.16)	.500 (12.7)	.100 (2.54)	.110 (2.79)	.0375 (.953)		SOT-23-5, SC59-5, Burr-Brown Pkg. 331, Tinylogic™ (Fairchild), Microgate (Texas Inst.)	33205CA-ND	1.86 14.22	
12	.400 (10.16)	.600 (15.24)	.100 (2.54)	.110 (2.79)	.0375 (.953)		SOT-23-6, SOT-23-L, SC59-6, TSOP-6, SuperSot-6™ (Fairchild), Micro-6™ (Int'l Rect.)	33206CA-ND	2.07 15.84	
13	.400 (10.16)	.800 (20.32)	.100 (2.54)	.300 (7.62)	.025 (.650)		SSOP-8	33208CA-ND	2.80 21.42	
14	1.125 (28.57)	.850 (21.59)	.100 (2.54)	.625 (15.87)	.100 (2.54)		TO-263AB, 3-Lead D-Pkg	33213CA-ND	3.45 26.46	
15	.500 (12.70)	.300 (7.62)	.100 (2.54)	.275 (6.98)	.090 (2.28)		SOT-223, Surface Mount Device	33223CA-ND	1.27 9.72	
16	.400 (10.16)	.400 (10.16)	.100 (2.54)	.080 (2.03)	.051 (1.3)		SOT-343	33343CA-ND	1.53 11.70	
17	.500 (12.70)	.600 (15.24)	.100 (2.54)	.275 (6.98)	.090 (2.28)		SOT-223	33623CA-ND	2.30 17.64	

◆ RoHS Compliant • Higher Current Applications ‡ Not exact device/pad match

More Product Available Online: www.digkey.com