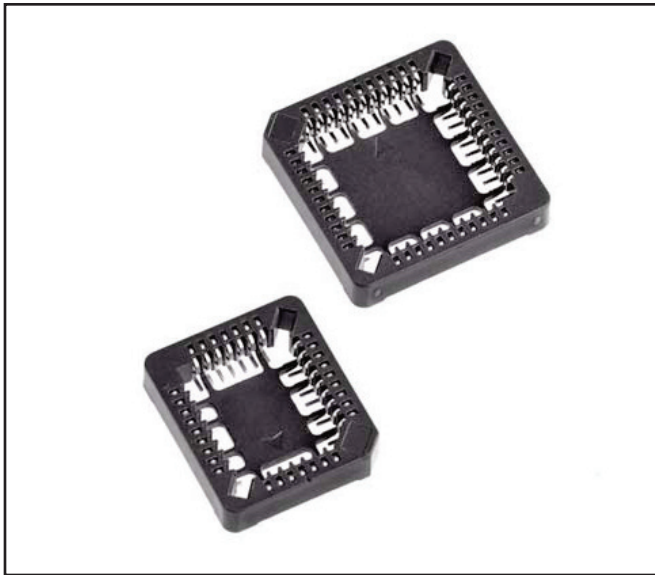


# 3M™ Chip Carrier Sockets

Surfacemount

8400 Series



- Accepts chip carriers conforming to JEDEC outline MO-047 for square and MO-052 for rectangular
- High temperature insulator compatible with IR reflow and wave soldering
- Compatible with automated loading equipment
- Open top design allows unrestricted air flow
- Molded slots for ease of device extraction
- Available with optional PCB locating posts
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS Compliance" section of [www.3Mconnector.com](http://www.3Mconnector.com) for compliance information (RIA E1 and C1 apply)

Date Modified: September 14, 2011

TS-2147-B  
Sheet 1 of 2

---

## Physical

### Insulation

Material: Glass Filled Polyphenylene Sulfide (PPS)

Flammability: UL 94V-0

Color: Black

### Contact

Material: Copper Alloy

### Plating

Underplating: 50 μ" [ 1.27 μm ] Nickel - Overall

Wiping Area: 160 μ", [ 4.06 μm ] Matte Tin

---

## Electrical

**Contact Resistance:** 15 mΩ

**Insulation Resistance:** >10<sup>3</sup> MΩ minimum

**Capacitance:** <1 pF at 1 MHz

---

## Environmental

**Temperature Rating:** -40°C to +105°C

**Process Rating:** Maximum 260°C, single pass, (profile per J-STD-020C)

**Moisture Sensitivity Level:** 1 (per J-STD-020C)

### Notice:

Please be aware that the 3M PLCC products are tin plated on the contact wiping surface. This is necessary to ensure mated reliability since standard PLCC contacts are also tin plated. Since tin whiskers are an inherent characteristic of tin and mechanically stressing the tin is a known driver of whisker growth, it is possible the PLCC and PLCC socket may exhibit tin whisker growth after mating. 3M follows the iNEMI plating recommendations which include whisker mitigating tin plating chemistry to reduce the likelihood of tin whisker growth. Please consider whether a PLCC socket is suitable for your particular needs after considering your product applications life span and environment including mechanical stresses, humidity, and thermal cycling all of which have been shown to stimulate tin whisker growth.



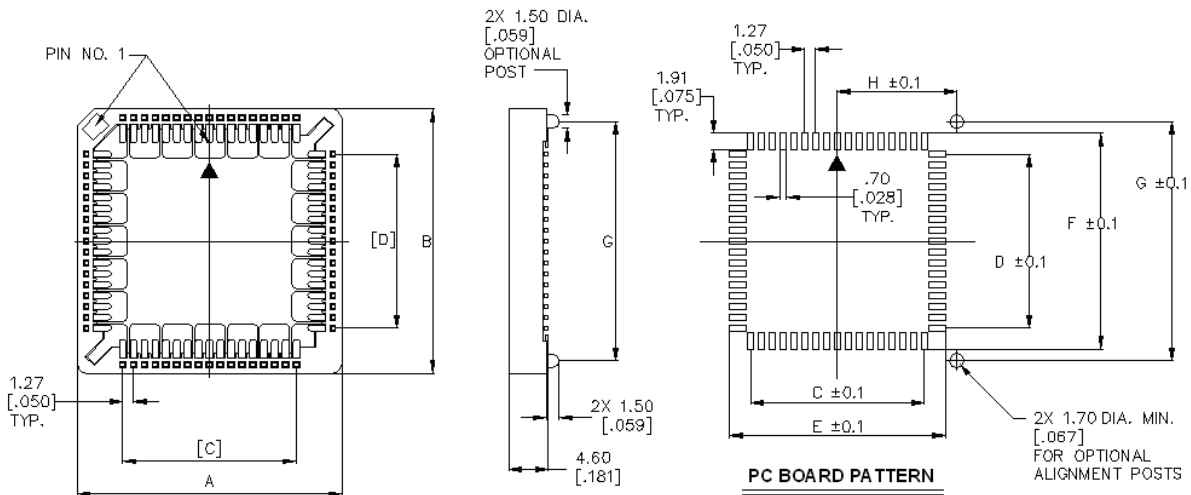
**Electronic Solutions Division**  
**Interconnect Solutions**  
<http://www.3Mconnectors.com>

3M is a trademark of 3M Company.  
For technical, sales or ordering information call  
**800-225-5373**

# 3M™ Chip Carrier Sockets

Surfacemount

8400 Series



Contact Quantity	A	B	C	D	E	F	G	H
20	15.65 [0.616]	15.65 [0.616]	5.08 [0.200]	5.08 [0.200]	10.03 [0.395]	10.03 [0.395]	12.70 [0.500]	6.35 [0.250]
28	18.18 [0.716]	18.18 [0.716]	7.62 [0.300]	7.62 [0.300]	12.57 [0.495]	12.57 [0.495]	15.24 [0.600]	7.62 [0.300]
32	18.18 [0.716]	20.75 [0.817]	7.62 [0.300]	10.16 [0.400]	12.57 [0.495]	15.11 [0.595]	17.78 [0.700]	7.62 [0.300]
44	23.28 [0.917]	23.28 [0.917]	12.70 [0.500]	12.70 [0.500]	17.65 [0.695]	17.65 [0.695]	20.32 [0.800]	10.16 [0.400]
52	25.84 [1.017]	25.84 [1.017]	15.24 [0.600]	15.24 [0.600]	20.19 [0.795]	20.19 [0.795]	22.86 [0.900]	11.43 [0.450]
68	30.95 [1.219]	30.95 [1.219]	20.32 [0.800]	20.32 [0.800]	25.27 [0.995]	25.27 [0.995]	27.94 [1.100]	13.97 [0.550]
84	36.00 [1.417]	36.00 [1.417]	25.40 [1.000]	25.40 [1.000]	30.35 [1.195]	30.35 [1.195]	33.02 [1.300]	16.51 [0.650]

**Note:**

1. For Tape and Reel Packaging dimensions, contact 3M customer service or your preferred 3M distributor.

mm (Inch)		
Tolerance Unless Noted		
	.0	.00
mm	±.3	±.20
[ ] Dimensions for Reference Only		

## Ordering Information

**84XX - 21X1 - RK - XX**

Contact Quantity  
(See Table)

Alignment Feature:  
A = With Location Post (tube packaging only)  
B = Without Location Post

Packaging:  
TP = Tube Pack  
TR = Tape and Reel (see note)

TS-2147-B  
Sheet 2 of 2

**Important Notice**

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

**Warranty; Limited Remedy; Limited Liability.**

This product will be free from defects in material and manufacture for a period of ninety (90) days from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

**3M Electronics Solutions Division**

6801 River Place Blvd.  
Austin, TX 78726-9000  
U.S.A.  
1-800-225-5373  
[www.3Mconnector.com](http://www.3Mconnector.com)

Please recycle. Printed in USA.  
© 3M 2010. All rights reserved.  
RIA-2217B-E

3M is a trademark of 3M Company.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.