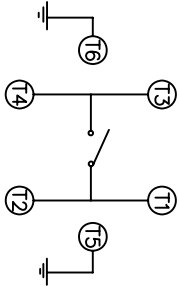
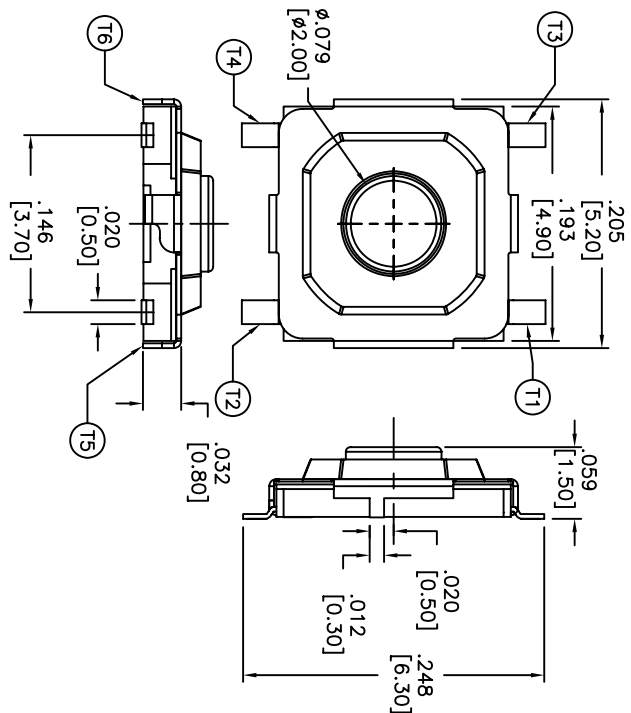
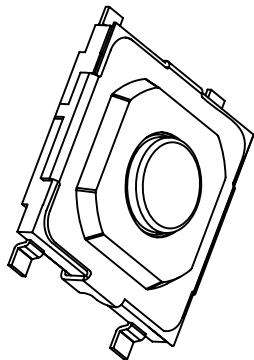
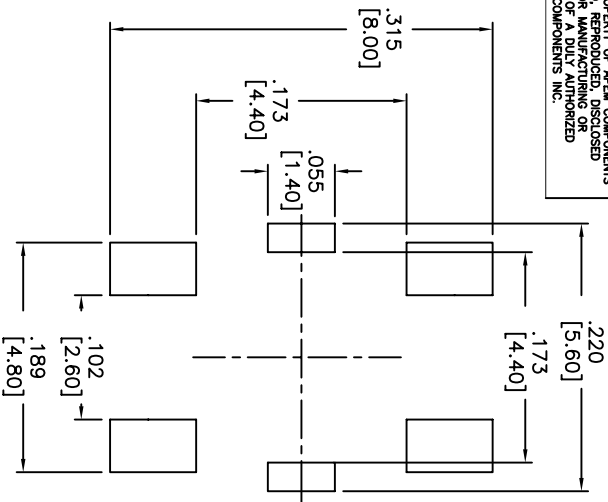


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ATMG53\*/V\*  
OPERATION FORCE: \_\_\_\_\_  
3=160gf  
4=260gf  
PACKAGE STYLE:  
T/R=TAPE AND REEL  
LEAD FREE



CIRCUIT DIAGRAM

| DATE  | SYM | REVISION RECORD | DWN. | CK. |
|-------|-----|-----------------|------|-----|
| 11/05 | B   | ECO# 495        | CD   |     |
|       |     |                 |      |     |
|       |     |                 |      |     |

DESCRIPTION: MINIATURE MACHANICAL CONTACT SWITCH WITH SURFACE MOUNT TERMINALS AND GROUNDING TERMINALS.

SPECIFICATIONS:

STROKE: .010  $\pm$ .008  $\pm$ .018

OPERATION TEMPERATURE RANGE: -25°C TO +70°C

STORAGE TEMPERATURE RANGE: -30°C TO +80°C

VIBRATION TEST: PASSES METHOD 201A MIL-STD-202F.

SHOCK TEST: 50G PER METHOD 213B MIL-STD202F.

ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 160gf. 200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100MΩ MIN. AT 500VDC.

DIELECTRIC STRENGTH: 250VAC/1 MINUTE.

CONTACT ARRANGEMENT: 1POLE 1 THROW.

MATERIALS:

COVER: NICKEL SILVER.

BASE: HIGH-TEMP. THERMOPLASTIC.

COLOR: BLACK.

STEM: BRASS WITH NICKEL PLATING

CONTACT DISC: STAINLESS STEEL.

TERMINAL: BRASS WITH SILVER CLADDING.

TAPE: TEFLON

SOLDERING:

HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SEC.

VAPOR & REFLOW: 255°C FOR 5 SEC. MAX.

NON-WASHABLE

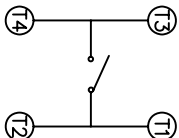
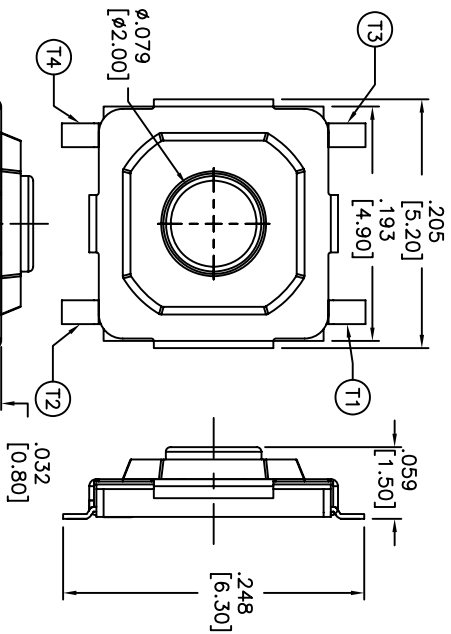
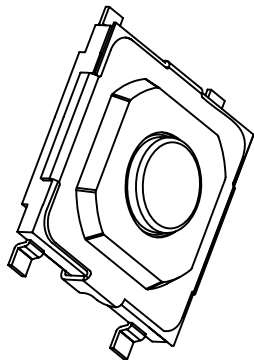
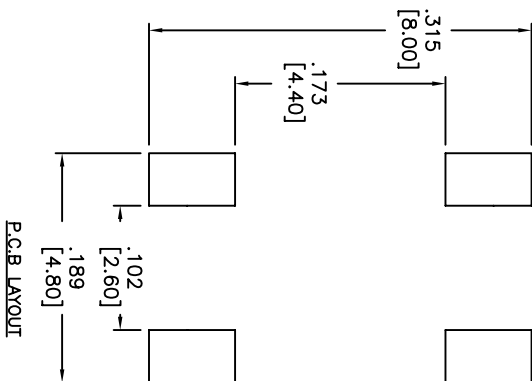
LEAD FREE PROCESS COMPATIBLE

ROHS COMPLANT

|                                         |  |             |  |                           |     |
|-----------------------------------------|--|-------------|--|---------------------------|-----|
| 9A. INSECT.                             |  | 63 NICK RD. |  | DRN.                      | CJD |
| DESIGNATES CRITICAL DIMENSION           |  | APERM       |  | BR.                       | PJD |
| TOLERANCES (UNLESS OTHERWISE SPECIFIED) |  | 1 OF 1      |  | THIRD ANGLE PROJECTION    |     |
| .X00=±.02(0.05)                         |  | SIZE        |  | SCALE                     |     |
| .X00=±.008(0.20)                        |  | B           |  | 10:1                      |     |
| .X000=±.0008(0.02)                      |  | TITLE       |  | MECHANICAL CONTACT SWITCH |     |
| ANGLE = 30.5°                           |  | DATE        |  | DRAWING NO.               |     |
| DO NOT SCALE DRAWING                    |  | 08/15/05    |  | ATMG53*V*                 |     |
|                                         |  |             |  | REV                       |     |
|                                         |  |             |  | B                         |     |

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ATM53\*V/\*  
PACKAGE STYLE:  
2=100gf  
3=160gf  
4=260gf  
T/R=TAPE AND REEL  
LEAD FREE



CIRCUIT DIAGRAM

DESCRIPTION: MINIATURE MECHANICAL CONTACT SWITCH  
SURFACE MOUNT TERMINALS.

SPECIFICATIONS:

STROKE: .010  $\pm .004$   $\pm .010$  [0.25  $\pm .010$ ]  
OPERATION TEMPERATURE RANGE: -25°C TO +70°C  
STORAGE TEMPERATURE RANGE: -30°C TO +80°C  
VIBRATION TEST: PASSES METHOD 201A MIL-STD-202F.  
SHOCK TEST: 50G PER METHOD 213B MIL-STD202F.  
ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 100gf, 16  
200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.  
CONTACT RESISTANCE: 100mΩ MAX.  
INSULATION RESISTANCE: 100MΩ MIN. AT 500VDC.  
DIELECTRIC STRENGTH: 250VAC/1 MINUTE.  
CONTACT ARRANGEMENT: 1POLE 1 THROW.

MATERIALS:  
COVER: NICKEL SILVER.  
BASE: HIGH-TEMP. THERMOPLASTIC.  
COLOR, BLACK.  
STEM: BRASS WITH NICKEL PLATING  
CONTACT DISC: STAINLESS STEEL WITH SILVER PLATING.  
TERMINAL: BRASS WITH SILVER CLADDING.  
TAPE: TEFLON

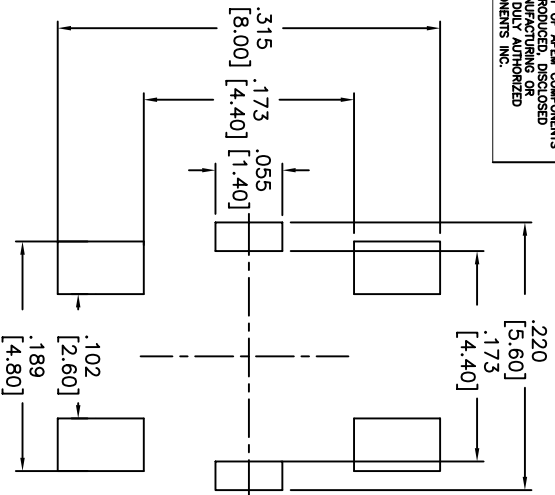
SOLDERING:  
HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SEC.  
VAPOR & REFLOW: 255°C FOR 5 SEC. MAX.  
NON-WASHABLE  
LEAD FREE PROCESS COMPATIBLE  
ROHS COMPLIANT

| DATE | SYM | REVISION RECORD | DWN. | CK. |
|------|-----|-----------------|------|-----|
|      |     |                 |      |     |
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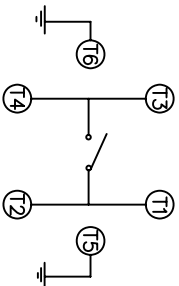
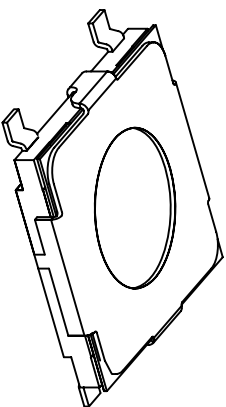
|                                         |  |                        |  |                      |  |                                 |  |
|-----------------------------------------|--|------------------------|--|----------------------|--|---------------------------------|--|
| 9A. INSECT.                             |  | APM                    |  | 63 Neck Rd. 01835    |  | DIN. CJD                        |  |
| DESIGNATES CRITICAL DIMENSION           |  | Haverhill, MA 01835    |  | FAX 978-372-5554     |  | BR. PJD                         |  |
| TOLERANCES (UNLESS OTHERWISE SPECIFIED) |  | INCH                   |  | SHEET 1 OF 1         |  | SIZE B                          |  |
| .XX = ±.02 [0.05]                       |  | THIRD ANGLE PROJECTION |  | SCALE 10:1           |  | TITLE MECHANICAL CONTACT SWITCH |  |
| .XXX = ±.004 [0.20]                     |  |                        |  |                      |  |                                 |  |
| .XXXX = ±.0008 [0.02]                   |  |                        |  |                      |  |                                 |  |
| ANGLE = 10.5°                           |  |                        |  |                      |  |                                 |  |
| DO NOT SCALE DRAWING                    |  | DATE 4/26/06           |  | DRAWING NO. ATM53*V* |  | REV A                           |  |



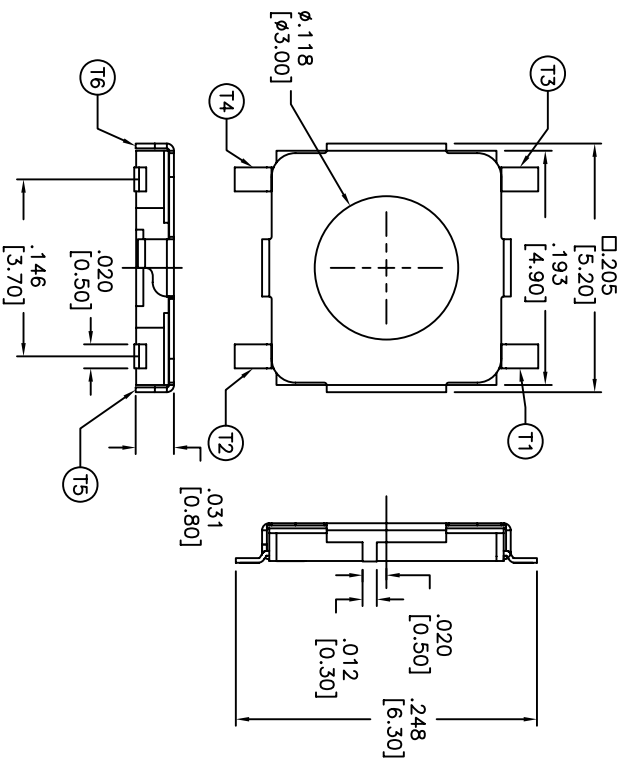
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P.C.B LAYOUT  
UNLESS OTHERWISE SPECIFIED  
ALL P.C TOLERANCES ARE  $\pm 0.02$  [0.05]



### CIRCUIT DIAGRAM



ATMG52\*/T

OPERATION FORCE: \_\_\_\_\_

PACKAGE STYLE: \_\_\_\_\_

2=100gf T/R=TAPE AND REEL

3=160gf LEAD FREE

4=260gf

DESCRIPTION: MINIATURE MECHANICAL CONTACT SWITCH WITH SMT, AND GROUNDING TERMINALS.

**SPECIFICATIONS:**

OPERATION TEMPERATURE RANGE: -25°C TO +70°C

STORAGE TEMPERATURE RANGE:  $-30^{\circ}\text{C}$  TO  $+80^{\circ}\text{C}$

VIBRATION TEST: PASSES METHOD 201A MIL-STD-202F.

STROKE: .010  $\pm$ .004 [0.25  $\pm$ 0.10]  
          -.008  $\pm$ .020

SHOCK TEST: 50G PER METHOD 213B MIL-STD202F

**ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 100gf AND 160gf.**

200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100M $\Omega$  MIN. AT 500VDC.

DIELECTRIC STRENGTH: 250VAC/1 MINUTE.

CONTACT ARRANGEMENT: 1POLE 1 THROW

## MATERIALS:

COVER: NICKEL SILVER.

BASE: HIGH-TEMP. THERMOPLASTIC.

COLOR, BLACK.

STEM: BRASS WITH NICKEL PLATING

CONTACT DISC: STAINLESS STEEL WITH SILVER CLADDING

TERMINAL: BR

TAPE: TEFLON

**SOLDERING:** TO WHAT DOES THIS REFER TO?

HAND SOLDERING: 30 WATT IRON AT 350°C FOR 5 SEC

SEC. 100.000.000 MAY 1997

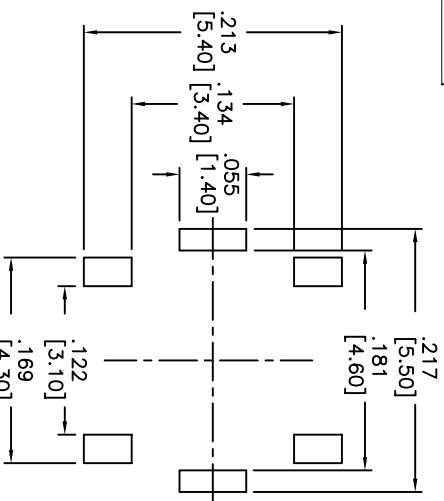
IR REFLOW: 260°C MAX

LEAD FREE PRODUCT COMPLIANT

| REVISION RECORD |     |  |  | DNV. | CK. |
|-----------------|-----|--|--|------|-----|
| DATE            | SYM |  |  |      |     |
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|                                                                                                                                        |                        |                                                                                     |                        |                                                                                                                      |                      |
|----------------------------------------------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------|
| <b>0A. INSECT</b><br>                               |                        | <b>03. NAIL</b> NO. 01835<br>Tel: 07-87-372-1802<br>Fax: 07-87-372-3534             |                        | <b>DRN.</b><br>BR:                                                                                                   | <b>CJD</b>           |
| <b>DESIGNATES OPTICAL DIMENSION</b>                                                                                                    |                        |  |                        | <b>CHK.</b><br>BY:                                                                                                   | <b>PJD</b>           |
| <b>TO ENDRANCES</b><br>(EXCEPT AS NOTED)<br>.X.XX $\pm$ .02(0.05)<br>.XXX $\pm$ .008(0.20)<br>.XXXX $\pm$ .0008(0.02)<br>ANGLE = +0.5° |                        | <b>INCH</b><br>(MM)                                                                 | <b>SHEET</b><br>1 OF 1 | <b>SIZE</b><br>B                                                                                                     | <b>SCALE</b><br>10:1 |
| <b>TITLE</b><br>MECHANICAL<br>CONTACT SWITCH                                                                                           |                        |  |                        | <b>THIRD ANGLE PROJECTION</b><br> |                      |
| <b>DO NOT SCALE DRAWING</b>                                                                                                            | <b>DATE</b><br>8/15/05 | <b>DRAWING NO.</b><br>ATMG52*V*                                                     | <b>REV</b><br>A        |                                                                                                                      |                      |

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ATUG52M\*

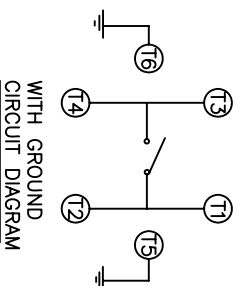
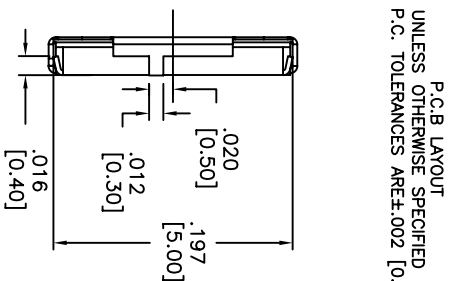
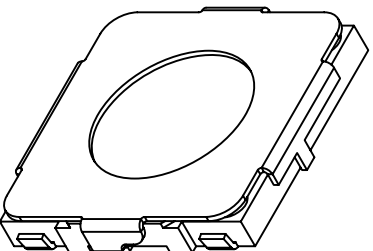
OPERATION FORCE: \_\_\_\_\_

PACKAGE STYLE: \_\_\_\_\_

2=100gf T/R=TAPE AND REEL

3=160gf LEAD FREE

4=260gf



DESCRIPTION: MINIATURE MECHANICAL CONTACT SWITCH WITH J TYPE SMT AND GROUNDING TERMINALS.

**SPECIFICATIONS:**

OPERATION TEMPERATURE RANGE:  $-25^{\circ}\text{C}$  TO  $+70^{\circ}\text{C}$

STORAGE TEMPERATURE RANGE: -30°C TO +80°C

VIBRATION TEST: PASSES METHOD 201A MIL-STD-202F.

SHOCK TEST: 50G PER METHOD 213B MIL-STD202F.

ELECTRICAL LIFE: 1,000,000 CYCLES MIN FOR 100gf 160gf.

200,000 CYCLES MIN FOR 260gf.

RATING: 50mA, 12VDC.

CONTACT RESISTANCE: 100mΩ MAX.

INSULATION RESISTANCE: 100M $\Omega$  MIN. AT 500VDC.

DIELECTRIC STRENGTH: 250VAC/1 MINUTE.

STROKE: 0.25  $\pm$ 0.10  
-0.20mm

CONTACT ARRANGEMENT: 1POLE 1 THROW.

.....

**MATERIALS:**

COVER: NICKEL SILVER.

BASE: HIGH-TEMP. THERMOPLASTIC.

COLOR, BLACK.

STEM: BRASS WITH NICKEL PLATING

CONTACT DISC: STAINLESS STEEL WITH SILVER CLADDING.  
TERMINAL: BRASS WITH SILVER PLATING

TERMINAL: BRASS WITH SILVER PLATING.

TAPE: TEFLON

**CONCLUSION:**

**SOLDERING:** 30 WATT IRON AT 350°C FOR 5 SEC

HAND SOLDERING: 30 W  
IR REFLOW: 260°C MAX

IR REFLOW: 260°C MAX.  
LEAD FREE PROCESS COMPATIBLE

LEAD FREE PRODUCTION COMPLIANT

|      |     | REVISION RECORD |  | DWN. | CK. |
|------|-----|-----------------|--|------|-----|
| DATE | SYM |                 |  |      |     |
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|                                                                                                         |  |                                                                                                         |  |                                                                                                        |  |                                                                                                       |  |                                                                                                    |  |                                                                                                     |  |
|---------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------|--|
| 5.4. INSECT<br>      |  | 5.5. MECHANICAL<br>  |  | 5.6. ELECTRICAL<br> |  | 5.7. PIPING<br>    |  | 5.8. OTHER<br>  |  | 5.9. FINISH<br>  |  |
| 5.10. DIMENSIONS<br> |  | 5.11. TOLERANCES<br> |  | 5.12. MATERIALS<br> |  | 5.13. FINISHES<br> |  | 5.14. OTHER<br> |  | 5.15. FINISH<br> |  |
| 5.16. DIMENSIONS<br> |  | 5.17. TOLERANCES<br> |  | 5.18. MATERIALS<br> |  | 5.19. FINISHES<br> |  | 5.20. OTHER<br> |  | 5.21. FINISH<br> |  |
| 5.22. DIMENSIONS<br> |  | 5.23. TOLERANCES<br> |  | 5.24. MATERIALS<br> |  | 5.25. FINISHES<br> |  | 5.26. OTHER<br> |  | 5.27. FINISH<br> |  |
| 5.28. DIMENSIONS<br> |  | 5.29. TOLERANCES<br> |  | 5.30. MATERIALS<br> |  | 5.31. FINISHES<br> |  | 5.32. OTHER<br> |  | 5.33. FINISH<br> |  |
| 5.34. DIMENSIONS<br> |  | 5.35. TOLERANCES<br> |  | 5.36. MATERIALS<br> |  | 5.37. FINISHES<br> |  | 5.38. OTHER<br> |  | 5.39. FINISH<br> |  |
| 5.40. DIMENSIONS<br> |  | 5.41. TOLERANCES<br> |  | 5.42. MATERIALS<br> |  | 5.43. FINISHES<br> |  | 5.44. OTHER<br> |  | 5.45. FINISH<br> |  |
| 5.46. DIMENSIONS<br> |  | 5.47. TOLERANCES<br> |  | 5.48. MATERIALS<br> |  | 5.49. FINISHES<br> |  | 5.50. OTHER<br> |  | 5.51. FINISH<br> |  |
| 5.52. DIMENSIONS<br> |  | 5.53. TOLERANCES<br> |  | 5.54. MATERIALS<br> |  | 5.55. FINISHES<br> |  | 5.56. OTHER<br> |  | 5.57. FINISH<br> |  |
| 5.58. DIMENSIONS<br> |  | 5.59. TOLERANCES<br> |  | 5.60. MATERIALS<br> |  | 5.61. FINISHES<br> |  | 5.62. OTHER<br> |  | 5.63. FINISH<br> |  |
| 5.64. DIMENSIONS<br> |  | 5.65. TOLERANCES<br> |  | 5.66. MATERIALS<br> |  | 5.67. FINISHES<br> |  | 5.68. OTHER<br> |  | 5.69. FINISH<br> |  |
| 5.70. DIMENSIONS<br> |  | 5.71. TOLERANCES<br> |  | 5.72. MATERIALS<br> |  | 5.73. FINISHES<br> |  | 5.74. OTHER<br> |  | 5.75. FINISH<br> |  |

## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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moschip.ru\_4

moschip.ru\_6

moschip.ru\_9