



|                                   |                       |
|-----------------------------------|-----------------------|
| 12.71 (501) ~ 63.00 (1600)        | +0.03<br>-0.25        |
| 5.10 (201) ~ 12.70 (500)          | +0.03<br>-0.20        |
| 1.78 (070) ~ 5.09 (200)           | +0.03<br>-0.10        |
| 0 ~ 1.77 (069)                    | +0.03<br>-0.05        |
| <b>DIMENSION A &amp; B (MILS)</b> | <b>TOLERANCE (MM)</b> |

|                 |                 |                 |               |           |          |               |
|-----------------|-----------------|-----------------|---------------|-----------|----------|---------------|
| 13-087J-28      | 8.80 (346)      | 12.50 (492)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-27      | 10.30 (405)     | 15.20 (598)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-26      | 9.10 (358)      | 14.00 (551)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-25      | 12.00 (472)     | 12.00 (472)     | 0.4           | 2.0       | 14.0     | 12D3          |
| 13-087J-24      | 10.30 (405)     | 15.90 (625)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-23      | 10.30 (405)     | 14.50 (570)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-22      | 9.10 (358)      | 14.60 (575)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-21      | 9.10 (358)      | 13.30 (524)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-20      | 0.76 (029)      | 6.09 (239)      | 0.2           | 1.0       | 5.0      | 12C           |
| 13-087J-19      | 7.50 (295)      | 13.97 (550)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-18      | 1.20 (047)      | 6.00 (236)      | 0.2           | 1.0       | 5.0      | 12C           |
| 13-087J-17      | 9.14 (360)      | 14.22 (560)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-16      | 6.09 (240)      | 13.46 (530)     | 0.4           | 2.0       | 10.0     | 12D3          |
| 13-087J-15      | 8.50 (335)      | 15.50 (610)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-14      | 2.00 (079)      | 9.00 (354)      | 0.2           | 1.0       | 6.0      | 12C           |
| 13-087J-13      | 7.00 (276)      | 14.00 (551)     | 0.4           | 2.0       | 10.0     | 12D3          |
| 13-087J-12      | 8.00 (315)      | 16.00 (630)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-11      | 9.00 (354)      | 15.50 (610)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-10      | 5.00 (197)      | 16.00 (630)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-09      | 5.00 (197)      | 18.00 (709)     | 0.4           | 2.0       | 8.0      | 12D3          |
| 13-087J-08      | 9.40 (370)      | 16.00 (630)     | 0.4           | 2.0       | 12.0     | 12D3          |
| 13-087J-07      | 1.52 (060)      | 8.13 (320)      | 0.2           | 1.0       | 6.0      | 12C           |
| 13-087J-06      | 2.54 (100)      | 8.13 (320)      | 0.2           | 1.0       | 6.0      | 12C           |
| 13-087J-05      | 3.30 (130)      | 10.16 (400)     | 0.3           | 1.0       | 6.0      | 12C           |
| 13-087J-04      | 1.20 (047)      | 8.00 (315)      | 0.2           | 1.0       | 5.0      | 12C           |
| 13-087J-03      | 3.20 (126)      | 10.92 (430)     | 0.3           | 1.0       | 6.0      | 12C           |
| 13-087J-02      | 0.65 (025)      | 6.09 (239)      | 0.2           | 1.0       | 5.0      | 12C           |
| 13-087J-01      | 3.30 (130)      | 11.50 (453)     | 0.3           | 1.0       | 6.0      | 12C           |
| <b>PART NO.</b> | <b>A (MILS)</b> | <b>B (MILS)</b> | <b>MAX. H</b> | <b>ØF</b> | <b>Y</b> | <b>HOLDER</b> |

**SALES COPY  
UNCONTROLLED DOCUMENT**

Copying of this document and giving it to others and the use of communication of the contents thereof are forbidden without express authority. Offenders are liable to the payment of damages. All rights are reserved in the event of the grant of a patent or the registration of a utility model or design.

|                                   |
|-----------------------------------|
| <b>TOLERANCE UNLESS SPECIFIED</b> |
| X.X ±0.10 GENERAL TOL. ±0.2       |
| X.XX ±0.05 ANGLE ±0.5°            |
| SURFACE FINISH 1.6/               |
| REMOVE BURRS AND SHARP EDGES      |
| ALL DIMENSIONS IN MM.             |

MATERIAL: FLUORO



**MICRO-MECHANICS PTE LTD**  
 mmsingapore@micro-mechanics.com  
 TEL: 67468800 FAX: 67467700

|                   |
|-------------------|
| PROCESS: -        |
| DATE: 10-7-08     |
| DRAFTSMAN: HT LEK |
| CHECKER: HS TOK   |

|                   |                        |
|-------------------|------------------------|
| TITLE: RUBBER TIP | REV. 17                |
| SCALE: 10:1       | DRAWING NO: 13-087J-XX |
|                   | SHEET 1                |
|                   | 1                      |