

12.72 (501) ~ 40.64 (1600)	+0.03 -0.25
5.10 (201) ~ 12.70 (500)	+0.03 -0.20
1.78 (070) ~ 5.09 (200)	+0.03 -0.10
0 ~ 1.77 (069)	+0.03 -0.05
DIMENSION A & B (MILS)	TOLERANCE (MM)


13-166B-28	3.00	3.00	0.6	0.6	1.0	7.0x7.0	12C
13-166B-27	4.80	9.20	1.0	3.6	1.7	12.0x7.0	12C
13-166B-26	3.25	5.50	0.7	1.8	1.0	7.0x7.0	12C
13-166B-25	3.25	6.50	0.7	2.3	1.0	7.0x7.0	12C
13-166B-24	3.50	5.25	0.9	1.6	1.0	7.0x7.0	12C
13-166B-23	3.50	6.00	0.9	2.0	1.0	7.0x7.0	12C
13-166B-22	3.50	7.00	0.9	2.5	1.0	7.0x7.0	12C
13-166B-21	3.75	3.75	0.8	0.8	1.0	7.0x7.0	12C
13-166B-20	4.25	4.25	1.1	1.1	1.0	7.0x7.0	12C
13-166B-19	4.50	6.50	1.4	2.3	1.0	7.0x7.0	12C
13-166B-18	4.90	7.38	1.6	2.7	1.0	12.0x7.0	12C
13-166B-17	3.80	7.40	1.0	2.7	1.0	12.0x7.0	12C
13-166B-16	3.56	4.44	0.9	1.2	1.0	7.0x7.0	12C
13-166B-15	3.20	4.00	0.8	1.1	1.0	7.0x7.0	12C
13-166B-14	3.65	5.90	0.8	1.9	1.0	7.0x7.0	12C
13-166B-13	4.20	9.55	1.0	3.6	1.0	12.0x7.0	12C
13-166B-12	3.30	2.60	0.9	0.7	1.0	7.0x7.0	12C
13-166B-11	3.30	3.20	0.8	0.8	1.0	7.0x7.0	12C
13-166B-10	5.00	10.00	1.5	4.0	1.0	12.0x7.0	12C
13-166B-09	4.00	8.00	1.0	3.0	1.0	10.0x6.0	12C
13-166B-08	5.00	5.00	1.6	1.6	1.0	7.0x7.0	12C
13-166B-07	4.00	4.00	1.0	1.0	1.0	7.0x7.0	12C
13-166B-06	3.60	5.60	0.9	1.8	1.0	7.0x7.0	12C
13-166B-05	4.00	5.00	1.5	1.8	1.0	7.0x7.0	12C
13-166B-04	4.94	5.65	1.6	1.8	1.0	7.0x7.0	12C
13-166B-03	4.55	6.98	1.4	2.5	1.0	7.0x7.0	12C
13-166B-02	4.60	5.30	1.4	1.7	1.0	7.0x7.0	12C
13-166B-01	4.50	4.50	1.2	1.2	1.0	7.0x7.0	12C
PART NO.	A	B	C	D	ØE	L x W	HOLDER

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TOLERANCE UNLESS SPECIFIED
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.

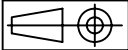
MATERIAL: FLUORO



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

PROCESS: -
DATE: 1-6-09
DRAFTSMAN: HS TOK
CHECKER: DESMOND

TITLE: RUBBER TIP (X-GROOVE)	REV. 40
SCALE: 10:1	DRAWING NO: 13-166B-XX
	SHEET 1
	3



12.72 (501) ~ 40.64 (1600)	+0.03 -0.25
5.10 (201) ~ 12.70 (500)	+0.03 -0.20
1.78 (070) ~ 5.09 (200)	+0.03 -0.10
0 ~ 1.77 (069)	+0.03 -0.05
DIMENSION A & B (MILS)	TOLERANCE (MM)

13-166B-78	5.08	9.65	1.5	3.8	1.0	12.0x7.0	12C
13-166B-77	5.08	9.14	1.5	3.6	1.0	12.0x7.0	12C
13-166B-76	5.08	8.64	1.5	3.3	1.0	12.0x7.0	12C
13-166B-75	5.08	8.13	1.5	3.1	1.0	12.0x7.0	12C
13-166B-74	5.08	7.62	2.8	1.8	1.0	10.0x7.0	12C
13-166B-73	5.08	7.11	2.6	2.8	1.0	10.0x7.0	12C
13-166B-72	5.08	6.60	1.5	2.3	1.0	10.0x7.0	12C
13-166B-71	5.08	5.59	1.5	1.8	1.0	7.0x7.0	12C
13-166B-70	4.40	3.30	0.9	0.65	1.0	7.0x7.0	12C
13-166B-69	4.80	5.92	1.4	1.9	1.0	7.0x7.0	12C
13-166B-68	3.81	3.81	1.0	1.0	1.0	7.0x7.0	12C
13-166B-67	2.80	3.80	0.4	0.9	1.0	7.0x7.0	12C
13-166B-66	3.00	6.00	0.6	2.0	1.0	7.0x7.0	12C
13-166B-65	4.84	5.46	1.4	1.7	1.0	7.0x7.0	12C
13-166B-64	3.65	4.59	0.9	1.3	1.0	7.0x7.0	12C
13-166B-63	3.05	3.81	0.5	0.9	1.0	7.0x7.0	12C
13-166B-62	5.59	5.84	1.8	1.9	1.0	7.0x7.0	12C
13-166B-61	3.43	3.68	0.7	0.8	1.0	7.0x7.0	12C
13-166B-60	5.21	6.73	1.6	2.4	1.0	7.0x7.0	12C
13-166B-59	5.33	5.72	1.7	1.9	1.0	7.0x7.0	12C
13-166B-58	7.62	8.89	2.8	3.4	1.0	12.0x10.0	12C
13-166B-57	3.05	3.81	0.6	1.0	1.0	7.0x7.0	12C

PART NO.	A	B	C	D	ØE	L x W	HOLDER
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13-166B-56	3.81	5.33	1.0	1.7	1.0	7.0x7.0	12C
13-166B-55	3.81	4.57	1.0	1.3	1.0	7.0x7.0	12C
13-166B-54	3.05	5.33	0.6	1.7	1.0	7.0x7.0	12C
13-166B-53	3.43	5.08	0.8	1.6	1.0	7.0x7.0	12C
13-166B-52	3.43	4.70	0.8	1.4	1.0	7.0x7.0	12C
13-166B-51	4.57	4.95	1.3	1.5	1.0	7.0x7.0	12C
13-166B-50	4.00	5.50	1.1	1.8	1.0	7.0x7.0	12C
13-166B-49	3.30	4.00	0.8	1.0	1.0	7.0x7.0	12C
13-166B-48	2.80	6.20	0.5	2.2	1.0	7.0x7.0	12C
13-166B-47	5.33	5.60	1.7	1.8	1.0	7.0x7.0	12C
13-166B-46	4.83	4.83	1.5	1.5	1.0	7.0x7.0	12C
13-166B-45	4.00	4.50	1.0	1.3	1.0	7.0x7.0	12C
13-166B-44	3.50	5.00	1.0	1.6	1.0	7.0x7.0	12C
13-166B-43	3.50	4.00	0.9	1.0	1.0	7.0x7.0	12C
13-166B-42	3.75	8.50	1.0	3.3	1.0	12.0x7.0	12C
13-166B-41	4.50	7.50	1.4	2.8	1.0	12.0x7.0	12C
13-166B-40	5.50	5.50	1.8	1.8	1.0	7.0x7.0	12C
13-166B-39	3.56	6.35	0.8	2.2	1.0	7.0x7.0	12C
13-166B-38	3.56	4.06	0.8	1.1	1.0	7.0x7.0	12C
13-166B-37	3.30	6.35	0.7	2.2	1.0	7.0x7.0	12C
13-166B-36	3.60	4.60	0.8	1.3	1.0	7.0x7.0	12C
13-166B-35	3.70	4.30	0.8	1.1	1.0	7.0x7.0	12C
13-166B-34	3.30	4.80	0.8	1.4	1.0	6.0x6.0	12C
13-166B-33	4.70	5.10	1.4	1.6	1.0	7.0x7.0	12C
13-166B-32	3.20	3.20	0.6	0.6	1.0	7.0x7.0	12C
13-166B-31	4.80	9.20	1.0	3.6	1.0	12.0x7.0	12C
13-166B-30	7.10	8.89	2.5	3.5	1.0	12.0x10.0	12C
13-166B-29	2.20	2.20	0.5	0.5	1.0	7.0x7.0	12C

PART NO.	A	B	C	D	ØE	L x W	HOLDER
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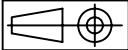
TOLERANCE UNLESS SPECIFIED
 X.X ±0.10 GENERAL TOL. ±0.2
 X.XX ±0.05 ANGLE ±0.5°
 SURFACE FINISH 1.5/
 REMOVE BURRS AND SHARP EDGES
 ALL DIMENSIONS IN MM.

MATERIAL: FLUORO

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 mmsingapore@micro-mechanics.com
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PROCESS: -
 DATE: 1-6-09
 DRAFTSMAN: HS TOK
 CHECKER: DESMOND

TITLE: RUBBER TIP (X-GROOVE)
 SCALE: -
 DRAWING NO: 13-166B-XX
 REV. 40
 SHEET 2/3



12.72 (501) ~ 40.64 (1600)	+0.03 -0.25
5.10 (201) ~ 12.70 (500)	+0.03 -0.20
1.78 (070) ~ 5.09 (200)	+0.03 -0.10
0 ~ 1.77 (069)	+0.03 -0.05
DIMENSION A & B (MILS)	TOLERANCE (MM)

13-166B-96	4.55	9.90	1.2	3.9	1.0	12.0x7.0	12C
13-166B-95	2.95	3.45	0.6	0.8	1.0	6.0x6.0	12C
13-166B-94	4.70	8.45	1.4	3.3	1.0	10.0x7.0	12C
13-166B-93	4.25	4.85	1.2	1.5	1.0	6.0x6.0	12C
13-166B-92	3.83	4.73	0.9	1.4	1.0	6.0x6.0	12C
13-166B-91	3.10	3.70	0.6	0.9	1.0	7.0x7.0	12C
13-166B-90	5.00	8.80	1.5	3.4	1.0	12.0x7.0	12C
13-166B-89	4.60	5.10	1.3	1.6	1.0	7.0x7.0	12C
13-166B-88	4.08	4.83	1.1	1.3	1.0	7.0x7.0	12C
13-166B-87	5.59	9.65	1.8	3.8	1.0	12.0x7.0	12C
13-166B-86	5.59	9.14	1.8	3.6	1.0	12.0x7.0	12C
13-166B-85	5.59	8.64	1.8	3.3	1.0	12.0x7.0	12C
13-166B-84	5.59	8.13	1.8	3.1	1.0	12.0x7.0	12C
13-166B-83	5.59	7.62	1.8	2.8	1.0	10.0x7.0	12C
13-166B-82	5.59	7.11	1.8	2.6	1.0	10.0x7.0	12C
13-166B-81	5.59	6.60	1.8	2.3	1.0	10.0x7.0	12C
13-166B-80	5.59	6.10	1.8	2.1	1.0	7.0x7.0	12C
13-166B-79	5.59	5.59	1.8	1.8	1.0	7.0x7.0	12C
PART NO.	A	B	C	D	ØE	L x W	HOLDER

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TOLERANCE UNLESS SPECIFIED
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.
13-99-027 R03

MATERIAL: FLUORO

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

PROCESS: -
DATE: 1-6-09
DRAFTSMAN: HS TOK
CHECKER: DESMOND

TITLE: RUBBER TIP (X-GROOVE)	REV. 40
SCALE: -	DRAWING NO: 13-166B-XX
	SHEET 3
	3