

1.78 (070) ~ 5.09 (200)	+0.03 -0.10
0 ~ 1.77 (069)	+0.03 -0.05
DIMENSION A & B (MILS)	TOLERANCE (MM)

PART NO.	A (MILS)	B (MILS)	MAX. H	ØF	HOLDER
13-087C-56	0.72 (028)	1.75 (068)	0.2	0.4	12U1/12U3
13-087C-55	0.65 (025)	1.53 (060)	0.2	0.4	12U1/12U3
13-087C-54	2.80 (110)	2.80 (110)	0.3	0.7	12U1/12U3
13-087C-53	1.75 (069)	3.20 (126)	0.2	0.7	12U1/12U3
13-087C-52	0.67 (026)	0.99 (039)	0.2	0.4	12U1/12U3
13-087C-51	1.42 (055)	1.42 (055)	0.2	0.7	12U1/12U3
13-087C-50	1.14 (045)	1.14 (045)	0.2	0.6	12U1/12U3
13-087C-49	1.27 (050)	1.27 (050)	0.2	0.7	12U1/12U3
13-087C-48	1.14 (045)	1.42 (055)	0.2	0.6	12U1/12U3
13-087C-47	1.27 (050)	1.78 (070)	0.2	0.7	12U1/12U3
13-087C-46	1.27 (050)	1.52 (060)	0.2	0.7	12U1/12U3
13-087C-45	1.02 (040)	1.78 (070)	0.2	0.6	12U1/12U3
13-087C-44	1.02 (040)	1.52 (060)	0.2	0.6	12U1/12U3
13-087C-43	1.02 (040)	1.27 (050)	0.2	0.6	12U1/12U3
13-087C-42	2.54 (100)	3.05 (120)	0.2	0.7	12U1/12U3
13-087C-41	AVAILABLE AS HR7F-0229-0130-0				
13-087C-40	1.02 (040)	3.81 (150)	0.2	0.45	12U1/12U3
13-087C-39	0.76 (030)	3.05 (120)	0.2	0.4	12U1/12U3
13-087C-38	0.89 (035)	2.29 (090)	0.2	0.45	12U1/12U3
13-087C-37	1.14 (045)	2.29 (090)	0.2	0.45	12U1/12U3
13-087C-36	1.52 (060)	2.54 (100)	0.2	0.7	12U1/12U3
13-087C-35	1.78 (070)	1.78 (070)	0.2	0.7	12U1/12U3
13-087C-34	1.78 (070)	2.79 (110)	0.2	0.7	12U1/12U3
13-087C-33	2.29 (090)	2.29 (090)	0.2	0.7	12U1/12U3
13-087C-32	2.54 (100)	2.54 (100)	0.2	0.7	12U1/12U3
13-087C-31	0.89 (035)	1.78 (070)	0.2	0.45	12U1/12U3
13-087C-30	1.90 (075)	3.30 (129)	0.2	0.7	12U1/12U3
13-087C-29	1.02 (040)	1.90 (075)	0.2	0.45	12U1/12U3

PART NO.	A (MILS)	B (MILS)	MAX. H	ØF	HOLDER
13-087C-28	1.14 (045)	2.16 (085)	0.2	0.7	12U1/12U3
13-087C-27	0.76 (030)	2.29 (090)	0.2	0.4	12U1/12U3
13-087C-26	0.70 (028)	0.90 (035)	0.2	0.4	12U1/12U3
13-087C-25	2.03 (080)	4.0 (157)	0.2	0.7	12U1/12U3
13-087C-24	0.89 (035)	3.30 (130)	0.2	0.45	12U1/12U3
13-087C-23	0.51 (020)	3.81 (150)	0.2	0.4	12U1/12U3
13-087C-22	0.51 (020)	1.25 (049)	0.2	0.4	12U1/12U3
13-087C-21	AVAILABLE AS HR7F-0229-0050-0				
13-087C-20	1.47 (058)	1.47 (058)	0.2	0.7	12U1/12U3
13-087C-19	0.60 (024)	0.60 (024)	0.2	0.4	12U1/12U3
13-087C-18	1.00 (039)	4.0 (157)	0.2	0.45	12U1/12U3
13-087C-17	1.02 (040)	2.54 (100)	0.2	0.45	12U1/12U3
13-087C-16	2.50 (098)	2.50 (098)	0.2	0.7	12U1/12U3
13-087C-15	2.00 (079)	2.00 (079)	0.2	0.7	12U1/12U3
13-087C-14	1.50 (059)	1.50 (059)	0.2	0.7	12U1/12U3
13-087C-13	0.64 (025)	2.29 (090)	0.2	0.4	12U1/12U3
13-087C-12	0.76 (030)	2.03 (080)	0.2	0.4	12U1/12U3
13-087C-11	1.42 (055)	3.25 (128)	0.2	0.6	12U1/12U3
13-087C-10	0.50 (020)	2.00 (079)	0.2	0.4	12U1/12U3
13-087C-09	0.70 (028)	3.00 (118)	0.2	0.4	12U1/12U3
13-087C-08	0.70 (028)	3.80 (150)	0.2	0.4	12U1/12U3
13-087C-07	0.70 (028)	3.20 (126)	0.2	0.4	12U1/12U3
13-087C-06	1.52 (060)	3.81 (150)	0.2	0.7	12U1/12U3
13-087C-05	1.27 (050)	3.56 (140)	0.2	0.6	12U1/12U3
13-087C-04	0.76 (030)	3.81 (150)	0.2	0.4	12U1/12U3
13-087C-03	0.76 (030)	2.54 (100)	0.2	0.4	12U1/12U3
13-087C-02	1.02 (040)	3.05 (120)	0.2	0.45	12U1/12U3
13-087C-01	1.02 (040)	3.43 (135)	0.2	0.45	12U1/12U3

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TOLERANCE UNLESS SPECIFIED
 X.X ±0.10 GENERAL TOL. ±0.2
 X.XX ±0.05 ANGLE ±0.5°
 SURFACE FINISH 12.5
 REMOVE BURRS AND SHARP EDGES
 ALL DIMENSIONS IN MM.
 13-99-027 R03

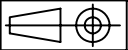
MATERIAL: FLUORO

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

PROCESS: -
 DATE: 7-11-08
 DRAFTSMAN: ANSOURI
 CHECKER: HS TOK

TITLE: RUBBER TIP
 SCALE: 10:1
 DRAWING NO: 13-087C-XX

REV. 50
 SHEET 1/2



1 2 3 4 5 6

A

B

C

D

A

B

C

D


13-087C-84	1.40 (055)	2.60 (102)	0.2	0.4	12U1/12U3
13-087C-83	1.02 (040)	3.56 (140)	0.2	0.45	12U1/12U3
13-087C-82	1.27 (050)	3.30 (130)	0.2	0.7	12U1/12U3
13-087C-81	1.70 (067)	3.70 (146)	0.2	0.7	12U1/12U3
13-087C-80	2.90 (114)	2.90 (114)	0.3	0.7	12U1/12U3
13-087C-79	2.60 (102)	2.60 (102)	0.2	0.7	12U1/12U3
13-087C-78	2.30 (090)	2.30 (090)	0.2	0.7	12U1/12U3
13-087C-77	0.51 (020)	2.54 (100)	0.2	0.4	12U1/12U3
13-087C-76	2.00 (079)	2.50 (098)	0.2	0.7	12U1/12U3
13-087C-75	2.70 (106)	3.00 (118)	0.2	0.6	12U1/12U3
13-087C-74	1.67 (066)	1.74 (070)	0.2	0.7	12U1/12U3
13-087C-73	1.30 (051)	2.10 (083)	0.2	0.7	12U1/12U3
13-087C-72	0.64 (025)	0.64 (025)	0.2	0.4	12U1/12U3
13-087C-71	1.52 (060)	3.56 (140)	0.2	0.7	12U1/12U3
13-087C-70	1.55 (061)	2.20 (087)	0.2	0.6	12U1/12U3
13-087C-69	1.42 (056)	3.91 (154)	0.2	0.6	12U1/12U3
13-087C-68	2.60 (102)	3.60 (142)	0.2	0.6	12U1/12U3
13-087C-67	0.51 (020)	4.00 (157)	0.2	0.4	12U1/12U3
13-087C-66	2.40 (094)	4.00 (157)	0.2	0.7	12U1/12U3
13-087C-65	2.29 (090)	3.05 (120)	0.2	0.7	12U1/12U3
13-087C-64	2.25 (088)	3.25 (128)	0.2	0.4	12U1/12U3
13-087C-63	2.80 (110)	3.30 (130)	0.3	0.4	12U1/12U3
13-087C-62	1.40 (055)	3.70 (146)	0.2	0.7	12U1/12U3
13-087C-61	2.00 (079)	3.00 (118)	0.2	0.4	12U1/12U3
13-087C-60	3.00 (118)	3.00 (118)	0.3	0.4	12U1/12U3
13-087C-59	2.80 (110)	2.80 (110)	0.3	0.4	12U1/12U3
13-087C-58	0.82 (032)	2.26 (089)	0.2	0.4	12U1/12U3
13-087C-57	0.80 (031)	1.90 (074)	0.2	0.4	12U1/12U3

13-087C-97	3.00 (118)	3.00 (118)	0.3	1.0	12U1/12U3
13-087C-96	2.00 (079)	2.00 (079)	0.2	0.6	12U1/12U3
13-087C-95	3.07 (121)	3.56 (140)	0.3	0.7	12U1/12U3
13-087C-94	3.05 (120)	3.05 (120)	0.3	0.7	12U1/12U3
13-087C-93	0.51 (020)	3.56 (140)	0.2	0.4	12U1/12U3
13-087C-92	0.51 (020)	3.05 (120)	0.2	0.4	12U1/12U3
13-087C-91	0.51 (020)	1.52 (060)	0.2	0.4	12U1/12U3
13-087C-90	2.07 (081)	4.00 (157)	0.2	0.7	12U1/12U3
13-087C-89	2.97 (117)	3.56 (140)	0.3	0.7	12U1/12U3
13-087C-88	2.95 (116)	3.01 (118)	0.3	0.7	12U1/12U3
13-087C-87	1.44 (057)	1.92 (075)	0.2	0.7	12U1/12U3
13-087C-86	1.00 (039)	1.00 (039)	0.2	0.7	12U1/12U3
13-087C-85	1.70 (067)	1.70 (067)	0.2	0.7	12U1/12U3
PART NO.	A (MILS)	B (MILS)	MAX. H	ØF	HOLDER

1.78 (070) ~ 5.09 (200)	+0.03 -0.10
0 ~ 1.77 (069)	+0.03 -0.05
DIMENSION A & B (MILS)	TOLERANCE (MM)

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TOLERANCE UNLESS SPECIFIED		MATERIAL: FLUORO	PROCESS: -	TITLE: RUBBER TIP	REV. 50
X.X ±0.10 GENERAL TOL. ±0.2	X.XX ±0.05 ANGLE ±0.5°	 MICRO-MECHANICS PTE LTD mmsingapore@micro-mechanics.com TEL: 67468800 FAX: 67467700	DATE: 7-11-08	SCALE: 10:1	DRAWING NO: 13-087C-XX
SURFACE FINISH 1.6/	REMOVE BURRS AND SHARP EDGES		DRAFTSMAN: ANSOURI		
ALL DIMENSIONS IN MM.			CHECKER: HS TOK		
13-99-027 R03					SHEET 2

1 2 3 4 5 6