

M/H	TYPE	H	J	K
2.0	01	05	1.62	2.6
2.5				
3.0			2.00	
3.5	04	1.00	3.00	2.6
4.0				
5.0				
6.0				
7.0				
8.0				
9.0				
10.0				
11.0				
4.5				
5.5				
6.5	05	1.50	3.50	3.6
7.5				
8.5				
9.5				
10.5				
11.5				
12.0				
13.0	06	7.00	10.00	2.54
14.0				
15.0				
16.0				
17.0				
12.5				
13.5	07	7.50	10.50	2.54
14.5				
15.5				
16.5				
17.5				

TOTAL NO. OF WAYS	A	B	C	D	TOTAL NO. OF WAYS	A	B	C	D
10	2.0	5.0	4.0	2.5	62	15.0	18.0	17.0	15.
12	2.5	5.5	4.5	3.0	64	15.5	18.5	17.5	16.
14	3.0	6.0	5.0	3.5	66	16.0	19.0	18.0	16.
16	3.5	6.5	5.5	4.0	68	16.5	19.5	18.5	17.
18	4.0	7.0	6.0	4.5	70	17.0	20.0	19.0	17.
20	4.5	7.5	6.5	5.0	72	17.5	20.5	19.5	18.
22	5.0	8.0	7.0	5.5	74	18.0	21.0	20.0	18.
24	5.5	8.5	7.5	6.0	76	18.5	21.5	20.5	19.
26	6.0	9.0	8.0	6.5	78	19.0	22.0	21.0	19.
28	6.5	9.5	8.5	7.0	80	19.5	22.5	21.5	20.
30	7.0	10.0	9.0	7.5	82	20.0	23.0	22.0	20.
32	7.5	10.5	9.5	8.0	84	20.5	23.5	22.5	21.
34	8.0	11.0	10.0	8.5	86	21.0	24.0	23.0	21.
36	8.5	11.5	10.5	9.0	88	21.5	24.5	23.5	22.
38	9.0	12.0	11.0	9.5	90	22.0	25.0	24.0	22.
40	9.5	12.5	11.5	10.0	92	22.5	25.5	24.5	23.
42	10.0	13.0	12.0	10.5	94	23.0	26.0	25.0	23.
44	10.5	13.5	12.5	11.0	96	23.5	26.5	25.5	24.
46	11.0	14.0	13.0	11.5	98	24.0	27.0	26.0	24.
48	11.5	14.5	13.5	12.0	100	24.5	27.5	26.5	25.
50	12.0	15.0	14.0	12.5	110	27.0	30.0	29.0	27.
52	12.5	15.5	14.5	13.0	120	29.5	32.5	31.5	30.
54	13.0	16.0	15.0	13.5	130	32.0	35.0	34.0	32.
56	13.5	16.5	15.5	14.0	140	34.5	37.5	36.5	35.
58	14.0	17.0	16.0	14.5	150	37.0	40.0	39.0	37.
60	14.5	17.5	16.5	15.0	160	39.5	42.5	41.5	40.

*NOTE.

1. CONTACT TECHNICAL SALES FOR ALTERNATIVE OPTION
 2. FOR MOULDS AVAILABILITY, PLEASE REFER TO PG 2/3

ORDER CODE
M402VM-3- XXX - XX NR
TOTAL NO. OF WAYS TYPE
(REFER TO TABLE)

DRAWN: Alla

CUSTOMER REF

100% 100% 100%

ASSEMBLY DRG:

ASSEMBLY DRG:

3.05 BOARD TO BOARD
TYPE MALE

- XXX - XX NR

HARWIN

HARWIN USA
TEL: 603 893 5376
FAX: 603 893 5396
mis@harwin.com

HARWIN Europe (UK)
TEL: 023 9231 4545
FAX: 023 9231 4590
mis@harwin.co.uk

HARWIN Asia
TEL: +65 6 779 4911
FAX: +65 6 779 3866
mis@harwin.com.sg

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TOLERANCES
~~X. = $\pm 1\text{mm}$~~
~~X.X = $\pm 0.25\text{mm}$~~
~~X.XX = $\pm 0.10\text{mm}$~~
~~X.XXX = $\pm 0.01\text{mm}$~~
ANGLES = 5°
UNLESS STATED

MATERIAL: SEE NOTE

FINISH: SEE NOTES

S/AREA:

TITLE:
M402V SERIES 0.5 BOARD TO BOARD
SMT V/T TYPE MALE

11

3

11

1

TOTAL NO. OF WAYS	TYPE	01	02	04	05	06	07
10		X	X	X	X	O	O
12		X	X	X	X	O	X
14		X	X	X	X	O	O
16		X	X	X	O	O	O
18		X	O	X	X	O	O
20		X	X	O	X	O	O
22		X	X	O	X	O	O
24		X	X	O	X	O	O
26		X	O	X	O	O	O
28		X	X	O	X	O	O
30		X	X	O	X	O	O
32		X	X	O	X	O	O
34		X	X	O	O	O	O
36		X	X	O	X	O	O
38	△12	X	O	O	X	O	O
40		X	X	O	X	O	O
42		O	O	O	O	O	O

TOTAL NO. OF WAYS	TYPE	01	02	04	05	06	07
44		●	○	○	●	○	○
46	△	○	○	●	●	○	○
48		○	○	○	○	○	○
50		●	●	●	●	○	○
52		○	○	○	●	○	○
54		○	○	○	○	○	○
56		○	○	○	○	○	○
58		○	○	○	○	○	○
60		●	●	●	●	○	○
62		○	○	○	○	○	○
64		○	○	○	○	○	○
66		○	○	○	○	○	○
68		○	○	●	●	○	○
70		○	●	○	○	○	○
72		○	○	○	○	○	○
74		○	○	○	○	○	○
76		○	○	○	○	○	○

TOTAL NO. OF WAYS	TYPE	01	02	04	05	06
78		○	○	○	○	○
80		●	●	●	●	○
82		○	○	○	○	○
84		○	○	○	○	○
86		○	○	○	○	○
88		○	○	○	○	○
90		○	○	○	○	●
92		○	○	○	○	○
94		○	○	○	○	○
96		○	○	○	○	○
98		○	○	○	○	○
100		○	○	○	○	○
110		○	○	○	○	○
120		○	○	○	○	○
130		○	○	○	○	○
140		○	○	○	○	○
150		○	○	○	○	○
160		○	○	○	○	○

MSP	ISS.	DATE	C/NODE
Allan	12	21.08.09	A231
Allan	11	06.08.09	A227
Allan	10	27.08.08	A158
Allan	9	27.06.08	A137
Allan	8	04.03.08	A116
Allan	7	18.12.07	A099
Allan	6	30.10.07	A087
Allan	5	15.10.07	A085
Allan	4	03.10.07	A080
Allan	3	06.08.07	A066
Allan	2	15.03.07	A025
Allan	1	25.08.06	—
NAME	ISS.	DATE	C/NODE

APPROVED:	<u>Brian</u>
CHECKED:	

DRAWN:	Allan
CUSTOMER REF.:	
ASSEMBLY DRG.:	

- – MOULDS AVAILABLE
- – MOULDS UPON REQUEST.
PLEASE REFER TECHNICAL SALES

X = OBSOLETE

HARWIN

HARWIN USA
TEL: 603 893 5376
FAX: 603 893 5396
mis@harwin.com

HARWIN Europe (UK)
TEL: 023 9231 4545
FAX: 023 9231 4590
mis@harwin.co.uk

HARWIN Asia
TEL: +65 6 779 4909
FAX: +65 6 779 3868
mis@harwin.com.sg

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TOLERANCES

X. = $\pm 1\text{mm}$
X.X = $\pm 0.25\text{mm}$
X.XX = $\pm 0.10\text{mm}$
X.XXX = $\pm 0.01\text{mm}$

ANGLES = $\pm 5^\circ$

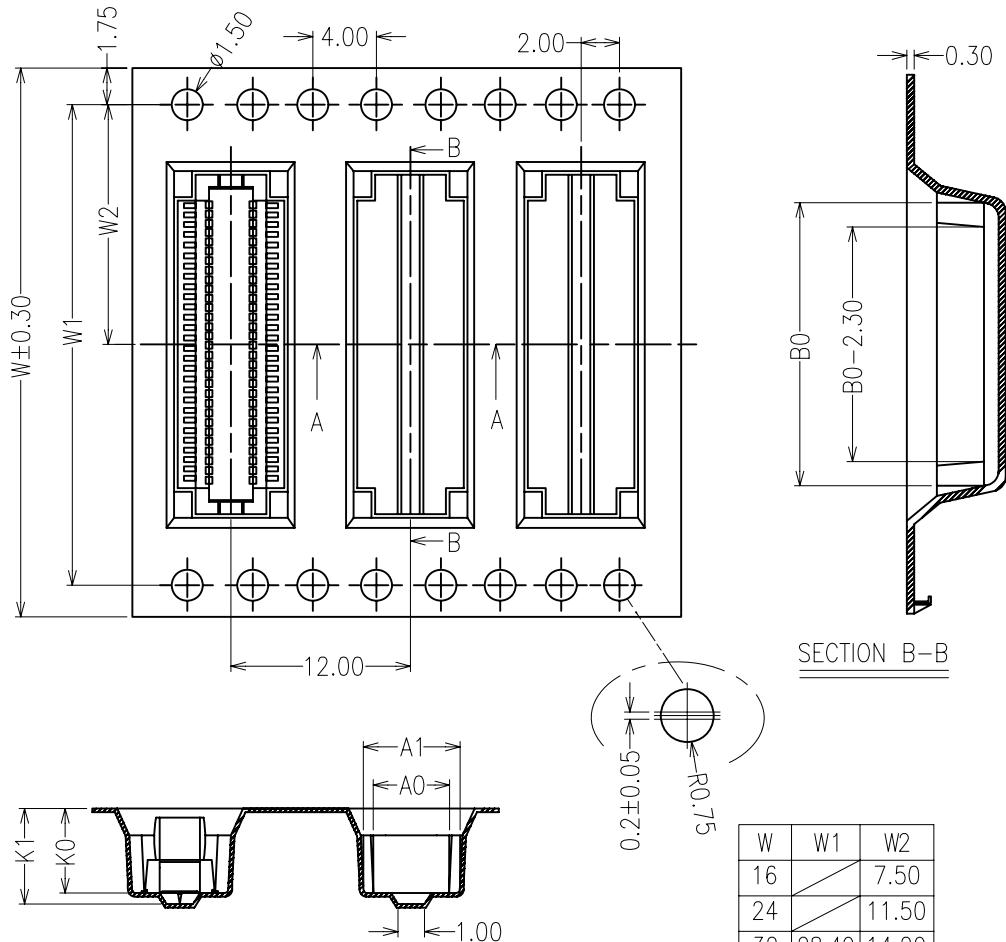
UNLESS STATED

MATERIAL: SEE NOTE

FINISH: SEE NOTES

S/AREA:

TITLE:	M402V SERIES 0.5 BOARD TO BOARD SMT V/T TYPE MALE	
DRAWING NUMBER:	M402VM-3- XXX - XX NR	SHT 2 OF 3



NOTES:

1. 10 SPROCKET HOLE PITCH CUMULATIVE TOLERANCE ± 0.20
2. CARRIER CAMBER IS WITHIN 1MM IN 250MM
3. MATERIAL: BLACK CONDUCTIVE POLYSTYRENE ALLOY

HARWIN

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TOLERANCES

X. = ± 1 mm
X.X = ± 0.20 mm
X.XX = ± 0.10 mm
X.XXX = ± 0.01 mm

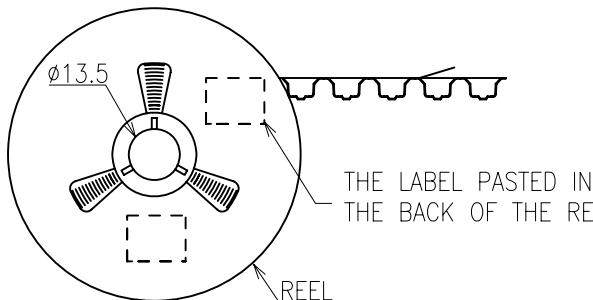
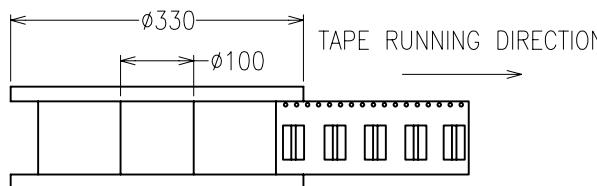
ANGLES = $\pm 0^{\circ}30'$
UNLESS STATED

CKT	10	14	18	22	26	30	34	38	42	46
PIN	10 12	14 16	18 20	22 24	26 28	30 32	34 36	38 40	42 44	46 48
W	016	016	016	016	024	024	024	024	024	024
B0	5.75	6.75	7.75	8.75	9.75	10.75	11.75	12.75	13.75	14.75

CKT	50	54	58	62	66	70	74	78	82	86
PIN	50 52	54 56	58 60	62 64	66 68	70 72	74 76	78 80	82 84	86 88
W	024	032	032	032	032	032	044	044	044	044
B0	15.75	16.75	17.75	18.75	19.75	20.75	21.75	22.75	23.75	24.75

CKT	90	94	98	B0	C0	D0	E0	F0	G0
PIN	90 92	94 96	98 A0	B0	C0	D0	E0	F0	G0
W	044	044	044	044	056	056	056	056	056
B0	25.75	26.75	27.75	30.25	32.75	35.25	37.75	40.25	42.75

ITEM	A0	A1	K0	K1	PITCH	PCS/REEL
DIM	4.30	6.00	3.30	3.90	12.00	1500



MSP	13	19.11.14	12693
Allan	12	21.08.09	A231
Allan	11	06.08.09	A227
Allan	10	27.08.08	A158
Allan	9	27.06.08	A137
Allan	8	04.03.08	A116
Allan	7	18.12.07	A099
Allan	6	30.10.07	A087
Allan	5	15.10.07	A085
Allan	4	03.10.07	A080
Allan	3	06.08.07	A066
Htut	2	14.03.07	A025
NAME	ISS.	DATE	C/NODE

APPROVED: *[Signature]*CHECKED: *[Signature]*

DRAWN: Htut htut

CUSTOMER REF.:

ASSEMBLY DRG:

TITLE:
M402V SERIES 0.5 BOARD TO BOARD
SMT V/T TYPE MALE

DRAWING NUMBER:
M402VM-3- XXX - XX NR

SHT 3 OF 3