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PRODUCT NUMBER

SEE TABLE

68046 - XXX - LF

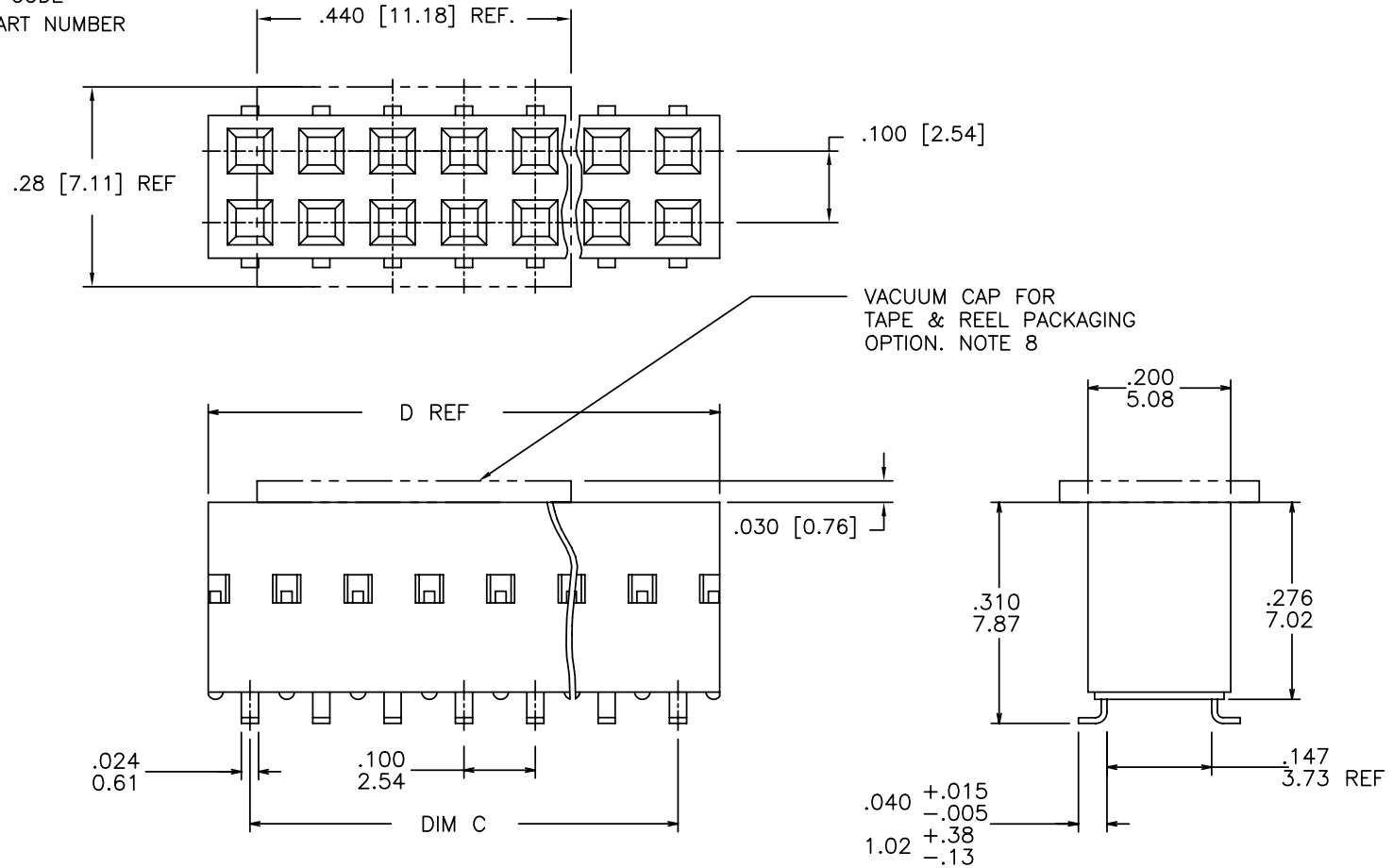
LEAD FREE OPTION

PACKAGING OPTION NOTE 6. OMIT IF NOT REQUIRED

NO OF POSITIONS PER ROW

PLATING CODE

BASE PART NUMBER



mat'l. code				surface		tolerance		projection		product family			
				ISO 1302 ✓		ISO 406 ISO 1101				DUBOX			
ltr		ecn		nodr		date		tolerances unless otherwise specified				title	
AV		N-005264		SH		2011-8-23		angles		linear		XX±.01/XX±.3	
AN		V04-0986		DAI		10/13/04						INCH/MM	
AP		V04-1003		DAI		10/25/04		0°±2°				scale 1:1	
AR		V05-0463		DPU		06/28/05		chr		J. SHREINER		11/07/90	
AS		M07-0143		ERE		03/03/07		engr		M. HAHN		11/07/90	
AT		M07-0203		AGS		5/02/07		chr		M. HAHN		11/07/90	
AU		M08-0065		MHT		3/04/05		appd		M. HAHN		11/07/90	
sheet		revisio		AV		AV		AV		AV		AV	
index		sheet		1		2		3		4		5	

PDS: Rev :AV

STATUS: Released

Printed: Aug 24, 2011

PRODUCT NUMBER NOTE 15	PLATING CONTACT AREA	PLATING SOLDER TAIL	MATERIAL REF
68046-2XX	15μ"/.38μ Au OR GXT MIN OVER 50μ"/1.27μ Ni MIN	100μ"/160μ" 2.54μ"/4.06μ" SN	NOTE 3&4
68046-3XX	30μ"/.76μ Au OR GXT MIN OVER 50μ"/1.27μ Ni MIN	100μ"/160μ" 2.54μ"/4.06μ" SN	NOTE 3&4
68046-4XX	100μ"/2.54 SN MIN OVER 50μ"/1.27μ Ni MIN	100μ"/160μ" 2.54μ"/4.06μ" SN	NOTE 3,4&17
68046-6XX	30μ"/.76μ Au OR GXT MIN OVER 50μ"/1.27μ Ni MIN	100μ"/160μ" 2.54μ"/4.06μ" SN	NOTE 3&4
68046-8XX	30μ"/.76μ Au MIN OVER 50μ"/1.27μ Ni MIN	200μ"/5.08μ SL MIN	NOTE 3&4

OBSOLETE

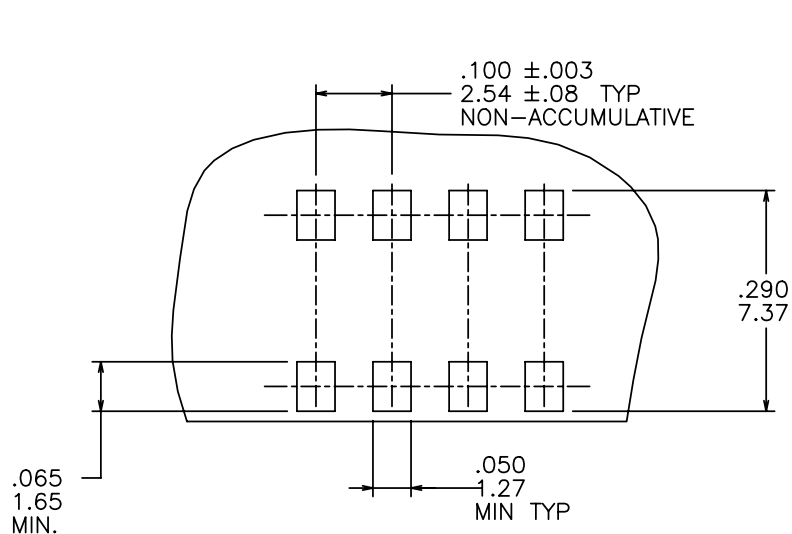


FIGURE A
TOP ENTRY
.025/.64 SQ PIN

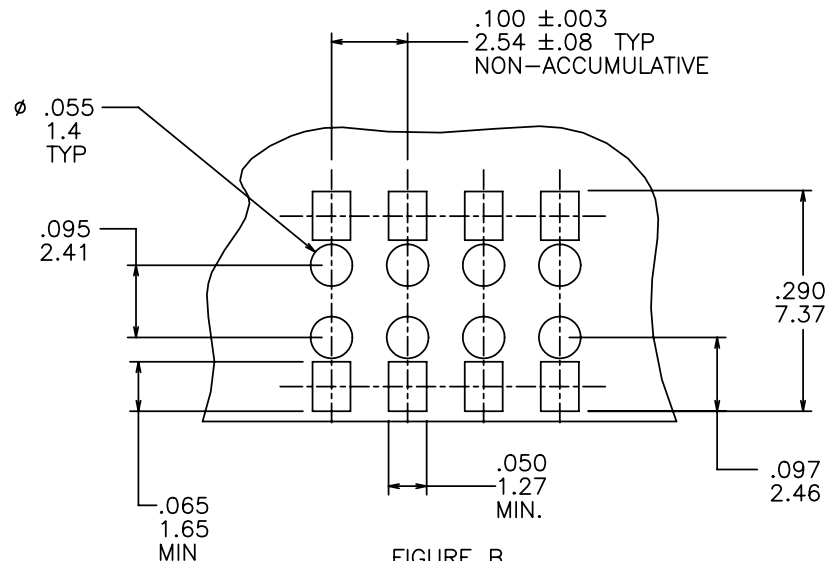
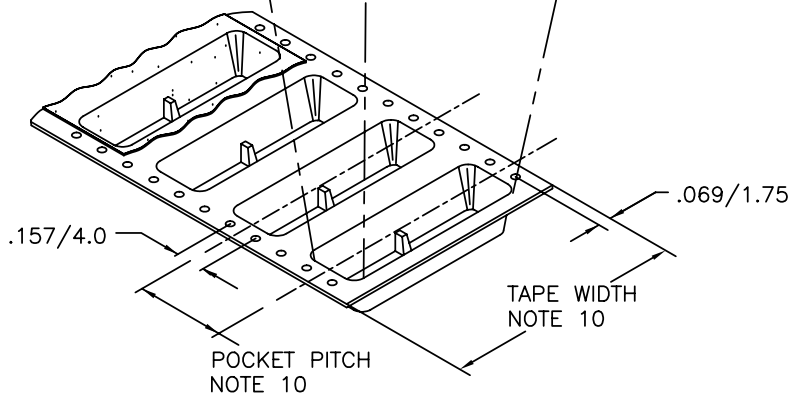


FIGURE B
BOTTOM ENTRY (THROUGH PWB)
.025/.64 SQ PIN

mat'l. code		surface ISO 1302 ✓		tolerance ISO 406 ISO 1101		projection INCH/MM		product family DUBOX	
l'tec n n d r		date		tolerances unless otherwise specified		title		SMT DOUBLE ROW VCC ASSEMBLY	
AV				angles	line	XX±.01/XX±.3	INCH/MM	dwg no	
				0°±2°		XXX±.005/XX±.13	scale 1:1	sheet 2 of 5	
				dr	J. SHREINER	11/07/90		size	
				enr	M. HAHN	11/07/90		68046	
				chr	M. HAHN	11/07/90		A3	
				app	M. HAHN	11/07/90		type Product Customer Drawing	
sheet	revision								
index	sheet								

VACUUM PICK-UP CAP
CENTRALLY LOCATED

DUBOX VERTICAL RECEPTACLE
DOUBLE ROW



TAPE AND REEL PACKAGING

SEE NOTE 7

NOTES:

1. TERMINAL MATERIAL: PHOSPHOR BRONZE.
EXTRA HARD
2. RECOMMENDED APPLICATION DATA:
A. RECOMMENDED SOLDER PAD PATTERN IS SHOWN IN FIGURE A & B.
B. ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF
ON GIVEN TERMINAL SPACING WITHIN .015/.38 DIA.
C. SUGGESTED MATING PIN LENGTH .210±.010 [5.33±.51]
3. HOUSING MATERIAL: P.P.S. FILLED.
FLAME RETARDANT PER UL-94-V0.
COMPATIBLE WITH INFRA-RED SOLDERING.
COLOR: BLACK
PART WILL WITHSTAND EXPOSURE TO 260° C PEAK TEMPERATURE
FOR 20 SEONDS IN WAVE SOLDER,INFRA-RED OR
VAPOR PHASE SOLDER PROCESS.
4. PRESTAMPED POST PLATED TERMINAL.
5. FCI, FCI FINAL PART NUMBER AND DATE CODE
TO BE MARKED ON TUBE LABEL.
6. ADD SUFFIX 'P' TO DASH NUMBER AS FOURTH DIGIT FOR TAPE & REEL
PACKAGING.
7. TAPE AND REEL PACKAGING PER GES-14-334.
8. VACUUM CAP MATERIAL: L.C.P., FLAME RETARDANT UL 94 V-0.
COLOR : BLACK
CAP IS USED WITH TAPE AND REEL PACKAGING.
CAP IS TO BE CENTRALLY LOCATED ON PART.
9. TAPE AND REEL PACKAGING FOR 24mm WIDE AND BELOW HAVE PILOT HOLES ON
ONE SIDE OF TAPE ONLY. SIZES ABOVE 24mm HAVE PILOT HOLES ON BOTH
OF TAPE.
10. TAPE & REEL PACKAGING 24mm AND 32mm TAPE WIDTH, WITH 112mm POCKET
PITCH.
11. MAXIMUM LENGTH OF CONNECTOR FOR TAPE AND REEL PACKAGING IS 2.50
LONG /63.5mm
12. PART NUMBER WITH SUFFIX "U" IS FOR SAWING PURPOSES ONLY.
13. STANDARD TUBE PACKAGE PER BUS-14-097/3.
14. TAPE & REEL PACKAGING 72mm TAPE WIDTH WITH 16mm POCKET PITCH.
15. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION
16. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
17. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND
HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT
ENVIRONMENTS".

mat'l. code	surface ISO 1302 ✓	tolerance ISO 406 ISO 1101	projection INCH/MM	product family DUBOX
ltn ecn nodr date	tolerances unless otherwise specified	angles linea 0°±2°	scale 1:1	title SMT DOUBLE ROW VCC ASSEMBLY
AV		XXX±.01/XX±.3 XXX±.0005/XXX±.13 XXX±.0020/XXX±.05		dwg no 68046
	dr J. SHREINER 11/07/90			sheet 3 of 5
	engr M. HAHN 11/07/90			size A3
	chr M. HAHN 11/07/90			
	appd M. HAHN 11/07/90			type Product Customer Drawing
sheet index	revision sheet			

1

2

3

4

5

6

PRODUCT NUMBER

NO. OF POS.

C DIM

D DIM

TAPE & REEL PACKAGING

LF OPTION

68046-Y02

2 X 2

.100/2.540

.217/5.511

NO

-Y03

2 X 3

.200/5.080

.317/8.051

NO

-Y04

2 X 4

.300/7.620

.417/10.591

NO

-Y05

2 X 5

.400/10.160

.517/13.131

NO

-Y06

2 X 6

.500/12.700

.617/15.671

NO

-Y07

2 X 7

.600/15.240

.717/18.211

NO

-Y08

2 X 8

.700/17.780

.817/20.751

NO

-Y09

2 X 9

.800/20.320

.917/23.291

NO

-Y10

2 X 10

.900/22.860

1.017/25.831

NO

-Y11

2 X 11

1.000/25.400

1.117/28.371

NO

-Y12

2 X 12

1.100/27.940

1.217/30.911

NO

-Y13

2 X 13

1.200/30.480

1.317/33.451

NO

-Y14

2 X 14

1.300/33.020

1.417/35.991

NO

-Y15

2 X 15

1.400/35.560

1.517/38.531

NO

-Y16

2 X 16

1.500/38.100

1.617/41.071

NO

-Y17

2 X 17

1.600/40.640

1.717/43.611

NO

-Y18

2 X 18

1.700/43.180

1.817/46.151

NO

-Y19

2 X 19

1.800/45.720

1.917/48.691

NO

-Y20

2 X 20

1.900/48.260

2.017/51.231

NO

-Y21

2 X 21

2.000/50.800

2.117/53.771

NO

-Y22

2 X 22

2.100/53.340

2.217/56.311

NO

-Y23

2 X 23

2.200/55.880

2.317/58.851

NO

-Y24

2 X 24

2.300/58.420

2.417/61.391

NO

68046-Y25

2 X 25

2.400/60.960

2.517/63.931

NO

NOTE 15

FCI

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mat'l. code

surface
ISO 1302 ✓

tolerance
ISO 406
ISO 1101

projection
INCH/MM

product family
DUBOX

ltr ecn nodr date

tolerances unless otherwise specified

title
SMT DOUBLE ROW
VCC ASSEMBLY

AV

angles

linea

scale 1:1

dwg no
68046

sheet # of 5
A3

dr J. SHREINER 11/07/90

enr M. HAHN 11/07/90

chr M. HAHN 11/07/90

app M. HAHN 11/07/90

type Product Customer Drawing

sheet index

revision sheet

41

STATUS Released

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FCI

1

2

3

4

5

6

PROD. NUMBER	NO. POSI.	C DIM	D DIM	TAPE & REEL PACKAGING	LF OPTION
68046-Y26	2 X 26	2.500/63.500	2.617/66.471	NO	NOTE 15
↑ -Y27	2 X 27	2.600/66.040	2.717/69.011	NO	
-Y28	2 X 28	2.700/68.580	2.817/71.551	NO	
-Y29	2 X 29	2.800/71.120	2.917/74.091	NO	
-Y30	2 X 30	2.900/73.660	3.017/76.631	NO	
-Y31	2 X 31	3.000/76.200	3.117/79.171	NO	
-Y32	2 X 32	3.100/78.740	3.217/81.711	NO	
-Y33	2 X 33	3.200/81.280	3.317/84.251	NO	
-Y34	2 X 34	3.300/83.820	3.417/86.791	NO	
-Y35	2 X 35	3.400/86.360	3.517/89.331	NO	
-Y36	2 X 36	3.500/88.900	3.617/91.871	NO	
-Y37	2 X 37	3.600/91.440	3.717/94.411	NO	
-Y38	2 X 38	3.700/93.980	3.817/96.951	NO	
-Y39	2 X 39	3.800/96.520	3.917/99.491	NO	
-Y40	2 X 40	3.900/99.060	4.017/102.031	NO	
-Y41	2 X 41	4.000/101.600	4.117/104.571	NO	
-Y42	2 X 42	4.100/104.140	4.217/107.111	NO	
-Y43	2 X 43	4.200/106.680	4.317/109.651	NO	
-Y44	2 X 44	4.300/109.220	4.417/112.191	NO	
-Y45	2 X 45	4.400/111.760	4.517/114.731	NO	
-Y46	2 X 46	4.500/114.300	4.617/117.271	NO	
-Y47	2 X 47	4.600/116.840	4.717/119.811	NO	
-Y48	2 X 48	4.700/119.380	4.817/122.351	NO	
-Y49	2 X 49	4.800/121.920	4.917/124.891	NO	
-Y50	2 X 50	4.900/124.460	5.017/127.431	NO	
-Y50U	2 X 50	4.900/124.460	5.017/127.431	NO	
-Y03P	2 X 3	0.200/5.080	0.317/8.051	YES	
-Y04P	2 X 4	0.300/7.620	0.417/10.592	YES	
↓ -Y05P	2 X 5	0.400/10.160	0.517/13.131	YES	
68046-Y06P	2 X 6	0.500/12.700	0.617/15.671	YES	
68046-Y07P	2 X 7	0.600/15.240	0.717/18.211	YES	
68046-Y12P	2 X 12	1.100/27.94	1.217/30.91	YES	
68046-Y13P	2 X 13	1.200/30.48	1.317/33.45	YES	
68046-Y20P	2 X 20	1.900/48.260	2.017/51.231	YES	

NOTE 12

NOTE 6 & 9

NOTE 6 & 10

NOTE 6 & 10

NOTE 6 & 10

NOTE 6 & 10

NOTE 6 & 9 — OBSOLETE

NOTE 6 & 14

NOTE 6 & 14

mat'l. code

surface
ISO 1302 ✓

tolerance
ISO 406
ISO 1101

projection
INCH/MM

product family
DUBOX

title
SMT DOUBLE ROW
VCC ASSEMBLY

dwg no
68046

shee5 of5
size
A3

type
Product Customer Drawing

sheet
index

revision
sheet

dr J. SHREINER 11/07/90

engr M. HAHN 11/07/90

chr M. HAHN 11/07/90

appd M. HAHN 11/07/90

Form A3

1

2

3

4

5

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