

PRODUCT NUMBER

SEE TABLE

68046 - XXX - LF

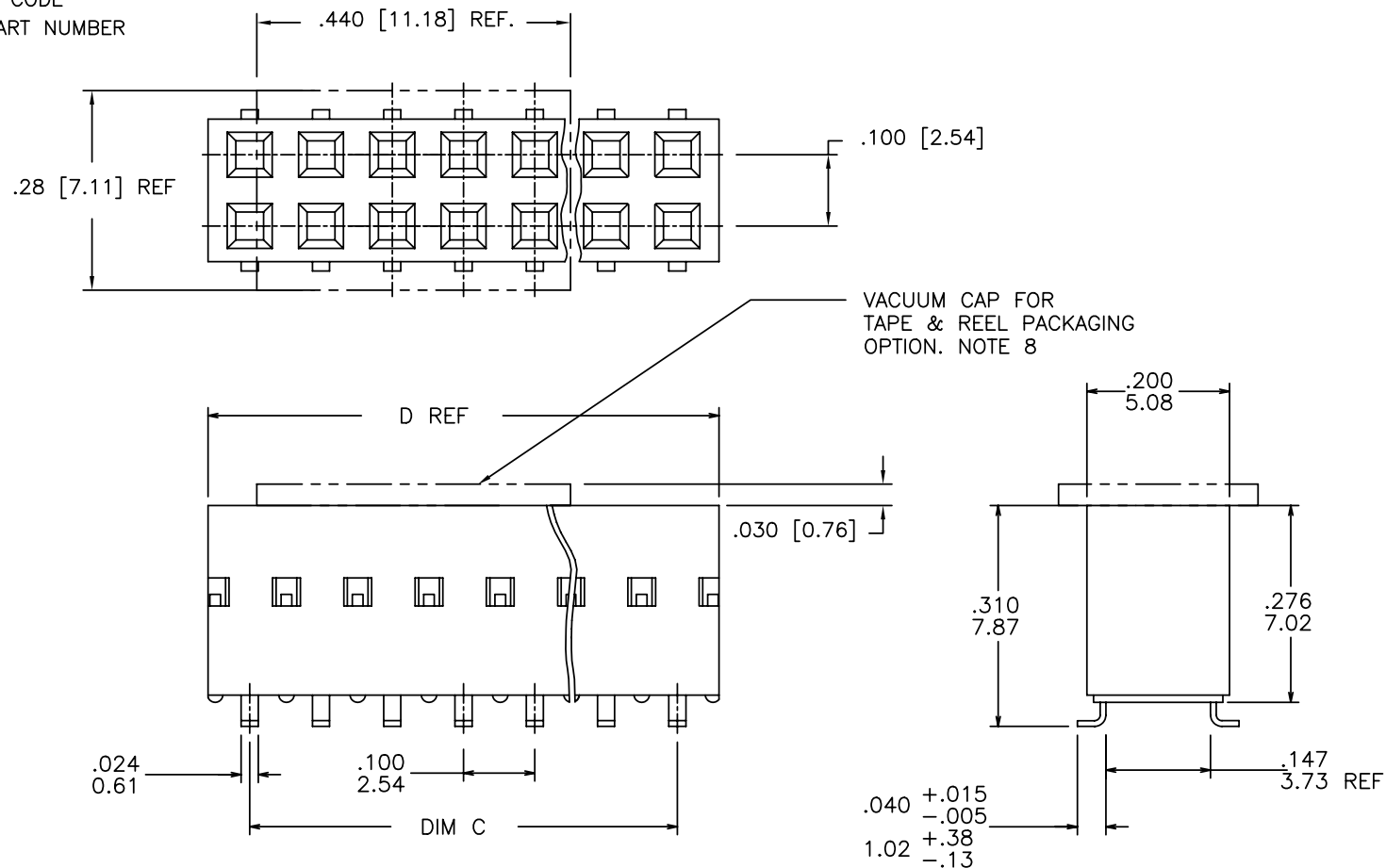
LEAD FREE OPTION

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 2011-8-25				angles linea		XX±.01/XX±.3		INCH/MM		SMT DOUBLE ROW VCC ASSEMBLY							
AN V04-0986 DAI 10/13/04						XXX±.0005/XXX±.13											
AP V04-1003 DAI 10/25/04						XXXXX.0020/XXXX.05											
AR V05-0463 DPU 06/28/05				dr		J. SHREINER		11/07/90		dwg no		sheet 1 of 5		size			
AS M07-0143 ERE 03/03/07				engr		M. HAHN		11/07/90				68046				A3	
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		revision		AV		AV		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

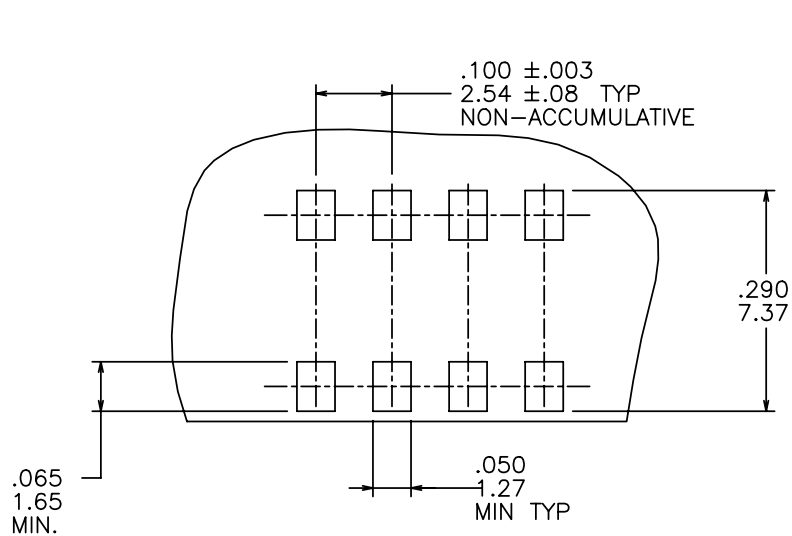


FIGURE A
TOP ENTRY
.025/.64 SQ PIN

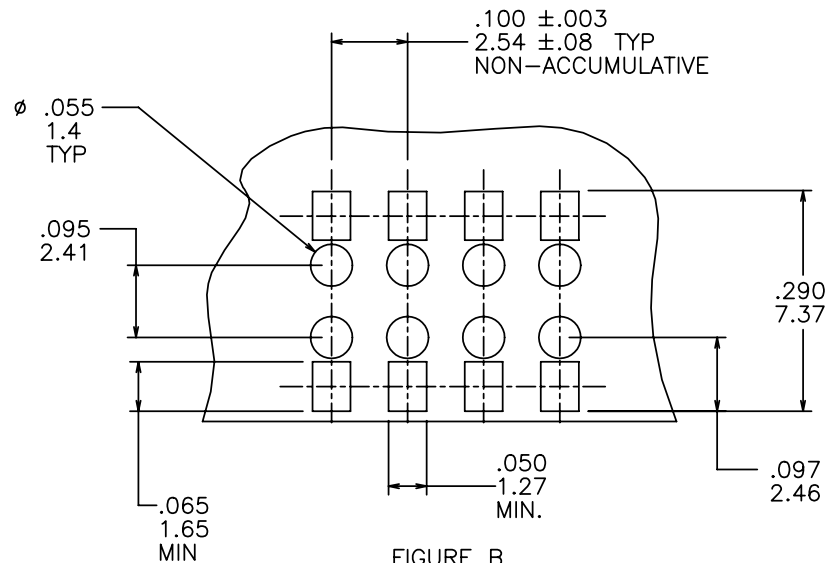
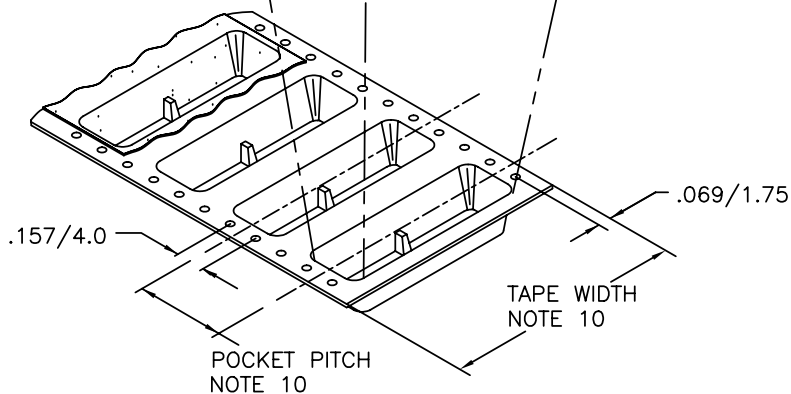


FIGURE B
BOTTOM ENTRY (THROUGH PWB)
.025/.64 SQ PIN

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

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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	NOTE 15
-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	

mat'l. code

surface
ISO 1302 ✓

tolerance
ISO 406
ISO 1101

projection
INCH/MM

product family
DUBOX

l'tec n nodr date

tolerances unless otherwise specified

title
SMT DOUBLE ROW
VCC ASSEMBLY

AV

angles

linea

0°±2°

dr J. SHREINER 11/07/90

engr M. HAHN 11/07/90

chr M. HAHN 11/07/90

appd M. HAHN 11/07/90

scale 1:1

dwg no 68046

sheet # of 5 size A3

type Product Customer Drawing

sheet index

revision sheet

41

42

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47

48

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Form A3

1

2

3

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6

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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

↑

-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 15

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

tolerance

projection

product family

ISO 1302 ✓

ISO 406

ISO 1101

DUBOX

ltr

ecn

nodr

date

tolerances unless otherwise specified

title

AV

angles

linear

XX±.01/XX±.3

INCH/MM

SMT DOUBLE ROW

0°±2°

XXX±0.005/XX±.13

VCC ASSEMBLY

XXXX±.0020/XXX±.05

scale 1:1

dr

J. SHREINER

11/07/90

dwg no

shee5 of5

size

engr

M. HAHN

11/07/90

68046

A3

chr

M. HAHN

11/07/90

appd

M. HAHN

11/07/90

type

Product Customer Drawing

sheet

revision

index

sheet

Form A3

1

2

3

4

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6

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