

PRODUCT NUMBER

SEE TABLE

68046 - XXX - LF

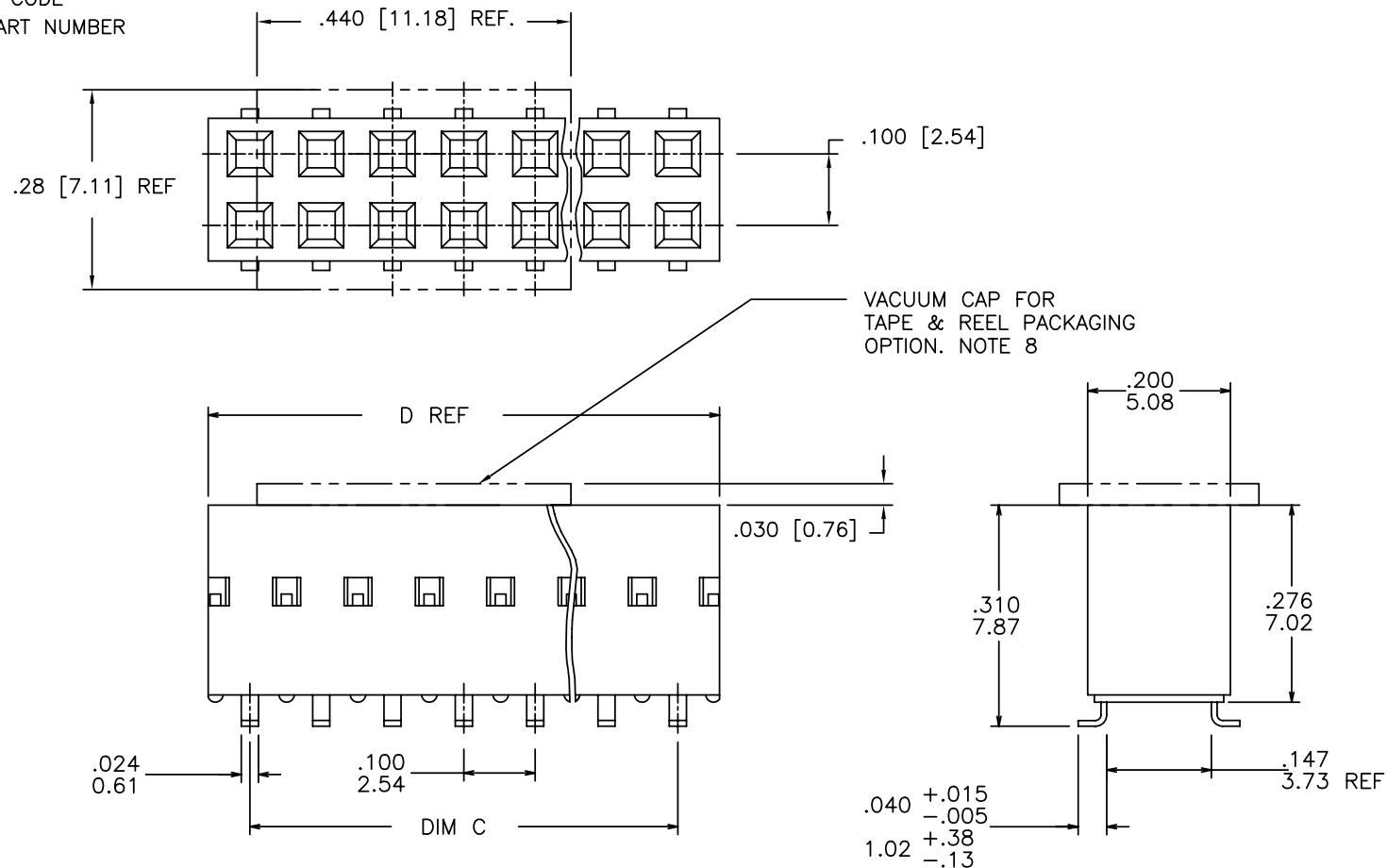
LEAD FREE OPTION

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 INCH/MM scale 1:1		SMT DOUBLE ROW VCC ASSEMBLY			
AN		V04-0986		DAI		10/13/04							
AP		V04-1003		DAI		10/25/04							
AR		V05-0463		DPU		06/28/05		dr		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	
index				sheet		1		2		3		4	
						5							

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

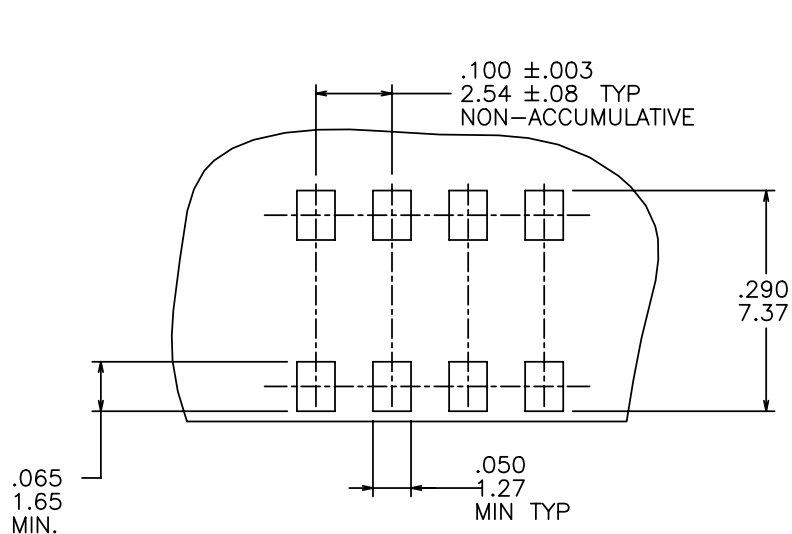


FIGURE A
TOP ENTRY
.025/.64 SQ PIN

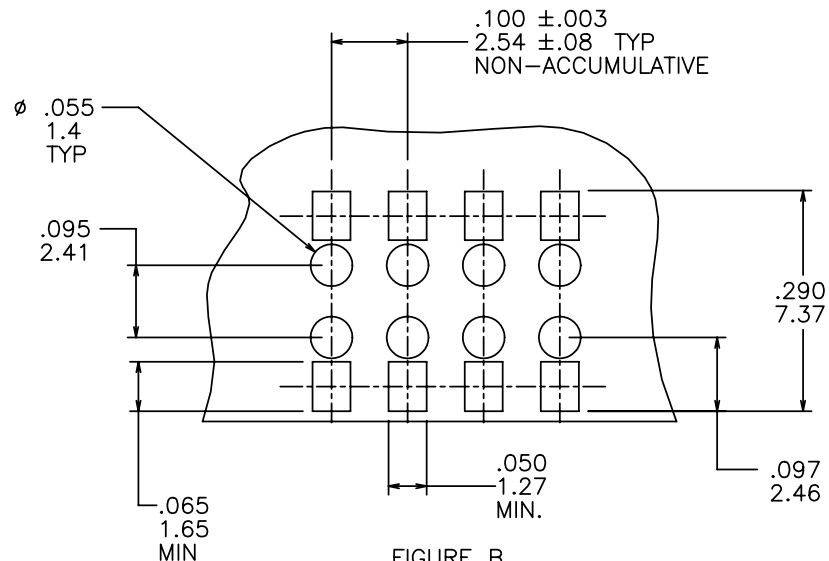
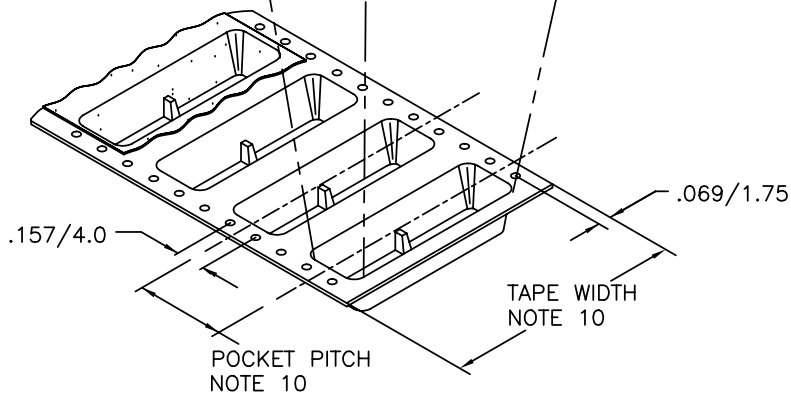


FIGURE B
BOTTOM ENTRY (THROUGH PWB)
.025/.64 SQ PIN

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 ☒ ISD 406 ISD 1302 ☒ ISD 1101		projection	product family DUBOX	
l	tr	ec	n	odr	date	title
AV						SMT DOUBLE ROW VCC ASSEMBLY
			angles	line		INCH/MM
			0°±2°			scale 1:1
			dr	J. SHREINER	11/07/90	
			engr	M. HAHN	11/07/90	
			chr	M. HAHN	11/07/90	
			appd	M. HAHN	11/07/90	
sheet	revision					dwg no
index	sheet					68046
						type Product Customer Drawing

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

product family
DUBOX

ltr ecn nodr date

tolerances unless otherwise specified

title

AV

angles

linea

XX±.01/XX±.3

XXX±.0005/XXX±.13

XXXX±.0020/XXX±.05

INCH/MM

scale 1:1

FCI

dwg no

sheet # of 5

size

dr J. SHREINER 11/07/90

engr M. HAHN 11/07/90

chr M. HAHN 11/07/90

appd M. HAHN 11/07/90

type Product Customer Drawing

sheet index

revision sheet

41

PDS: Rev :AV

STATUS: Released

Printed: Aug 24, 2011

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

5

6

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FCI

STATUS: Released

Printed: Aug 24, 2011