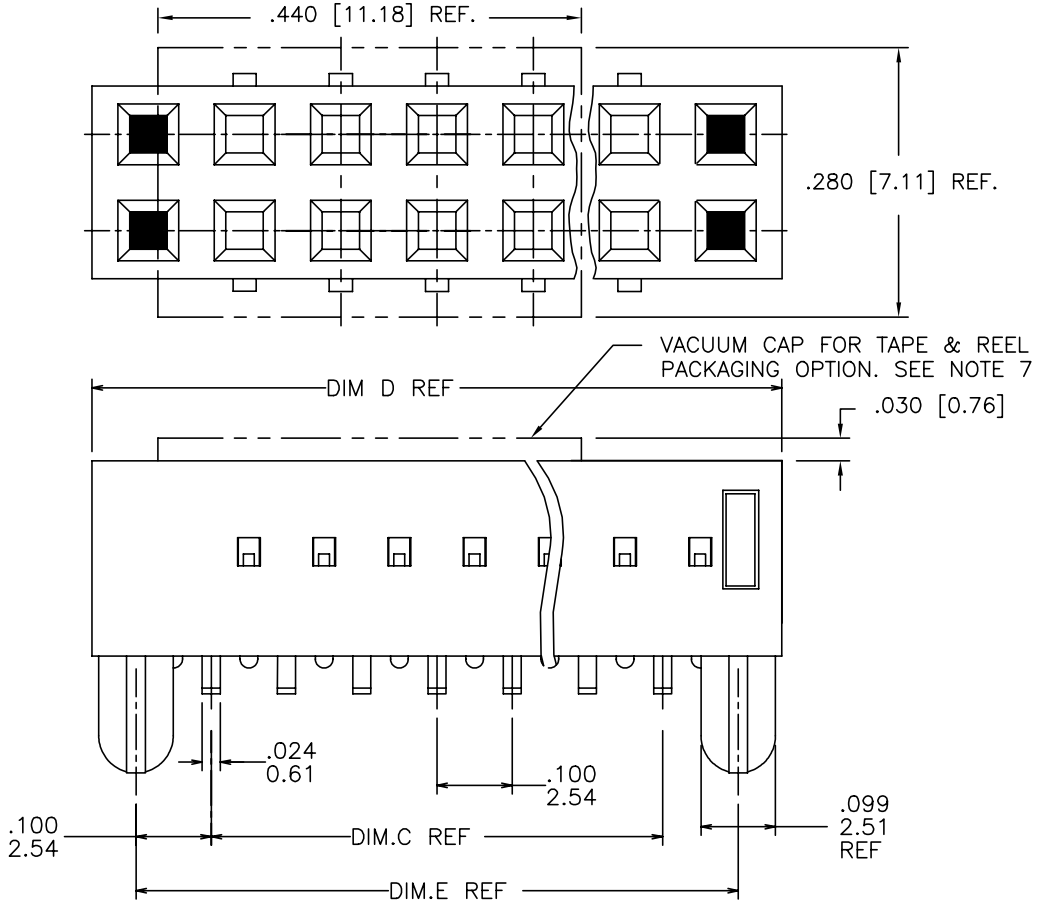
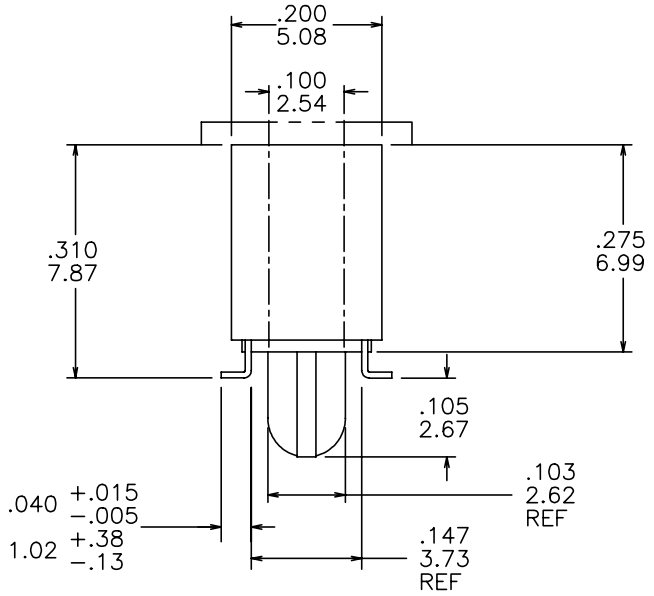
PRODUCT NO.
SEE TABLE

69154 – XXX __ LF

- LF — LEAD FREE OPTION
- __ — PACKAGING OPTION NOTE 10,OMIT IF NOT REQUIRED.
- XX — NO. OF POSITIONS PER ROW
- XXX — PLATING CODE
- 69154 — BASE PART NUMBER





mat'l. code	surface	tolerance	projection	product family
NOTES 1,3,10 & 14	ISO 1302	ISO 406 ISO 1101		DUBOX

ltr	ecn	nodr	date
M	ELX-N-14890	ZK	06/03/13
P	V03-0310	HTB	05/02/03
R	V03-1246	PJ	12/04/03
S	V05-0463	DPU	06/27/05
T	M07-0143	ERE	03/03/07
U	M07-0203	AGS	05/02/07

tolerances unless otherwise specified

angles 0°±2°

linear .XX±.01/.X±.3; .XXX±0.005/.XX±.13; .XXXX±.0020/.XXX±.051

INCH/MM

scale 1:1

dr	J. SHREINER	12/31/90
engr	M. HAHN	12/31/90
chr	M. HAHN	12/31/90
appd	M. HAHN	12/31/90

title: SMT DOUBLE ROW VCC ASSEMBLY

dwg no 69154 | sheet 1 of 6 | size A3

type Product Customer Drawing

sheet	revision	V	V	V	V	V	V
index	sheet	1	2	3	4	5	6

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form A3

PDS: Rev :V STATUS: Released Printed: Jun 10, 2013

PRODUCT NUMBER
SEE TABLE

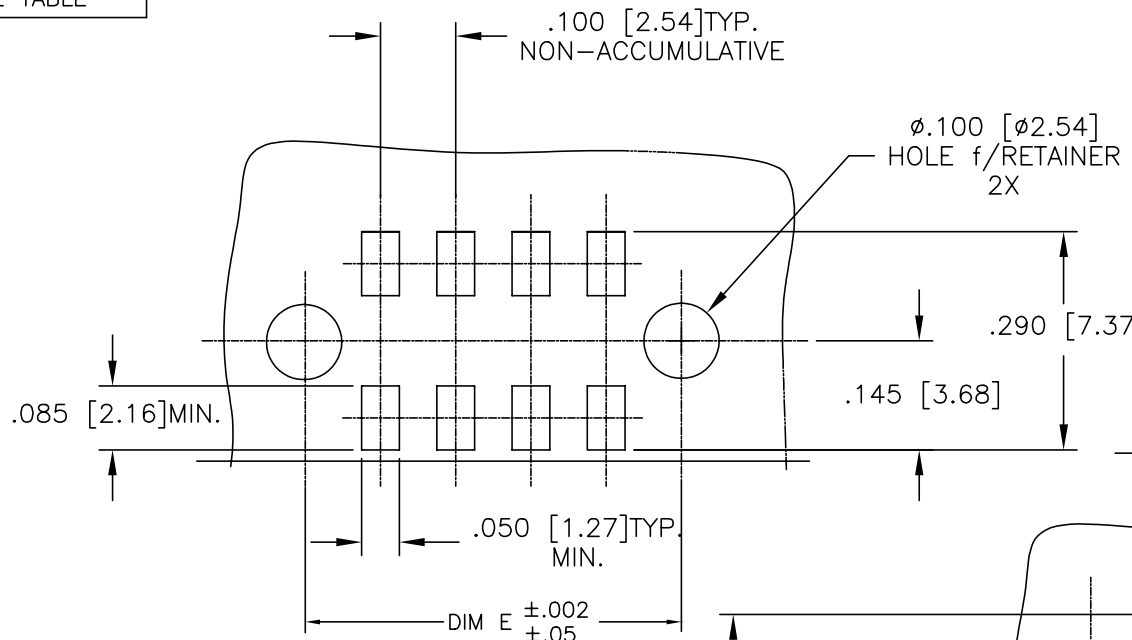

FIGURE A
TOP ENTRY
.025/.64 SQUARE PIN

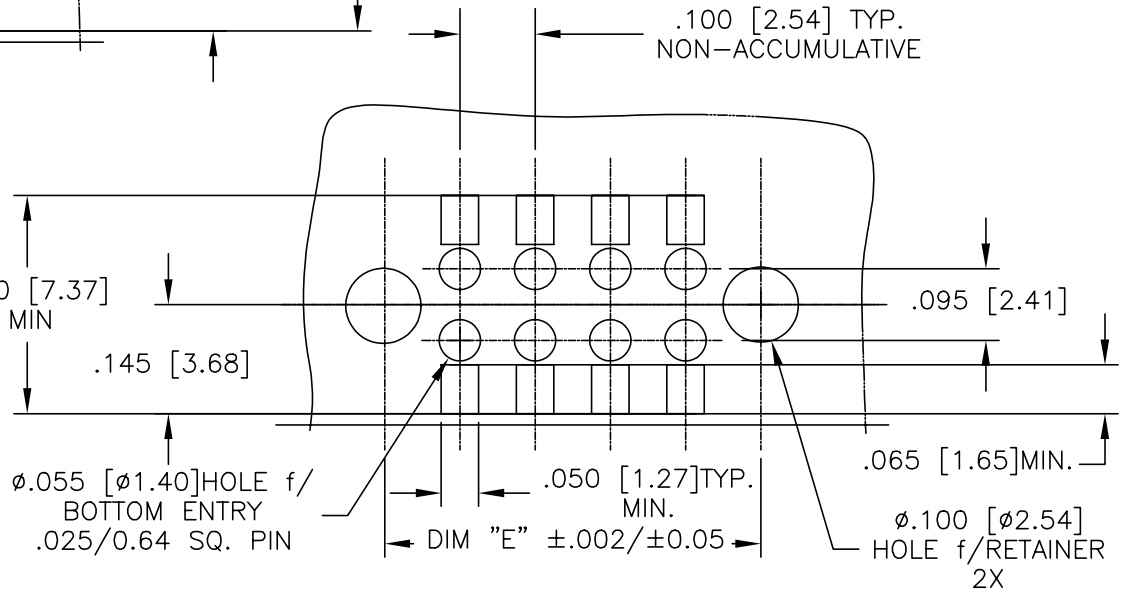

FIGURE B
BOTTOM ENTRY (THROUGH PWB)
.025/.64 SQUARE PIN

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family
ltr	ecn	nodr	date	tolerances unless otherwise specified			DUBOX
V				angles 0°±2°	linear .XX±.01/.X±.3 / .XXX±.005/.XX±.13 / .XXXX±.0020/.XXX±.051	INCH/MM	title: SMT DOUBLE ROW VCC ASSEMBLY
						scale 1:1	
				dr J. SHREINER 12/31/90			dwg no 69154 sheet 2 of 6 size A3
				engr M. HAHN 12/31/90			
				chr M. HAHN 12/31/90			
				appd M. HAHN 12/31/90			type Product Customer Drawing
sheet index	revision sheet						

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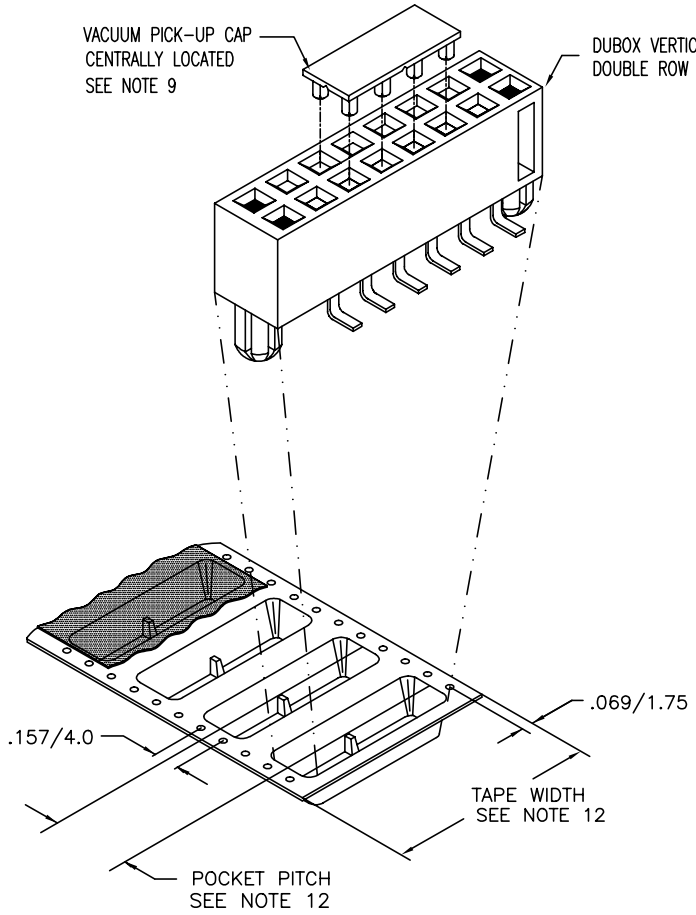
PRODUCT NO.
SEE TABLE



TAPE AND REEL PACKAGING ONLY

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family
							DUBOX
ltr	ecn	nodr	date	tolerances unless otherwise specified			title
V				angles	linear .XX±.01/.X±.3 / .XXX±.005/.XX±.13 / .XXXX±.0020/.XXX±.051	INCH/MM	SMT DOUBLE ROW VCC ASSEMBLY
				0°±2°		scale 1:1	
				dr J. SHREINER 12/31/90			dwg no 69154 sheet 3 of 6 size A3
				engr M. HAHN 12/31/90			
				chr M. HAHN 12/31/90			
				appd M. HAHN 12/31/90			type Product Customer Drawing
sheet index	revision sheet						

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PRODUCT NO NOTE 13	PLATING CONTACT AREA	PLATING SOLDER TAIL	MATERIAL REF	
69154-2XX	15u"/.38u Au MIN OVER 50u"/1.27u Ni MIN SEE NOTE 16	100u"/160u" 2.54u/4.06u SN	NOTE 3 & 4	
69154-3XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN SEE NOTE 16	100u"/160u" 2.54u/4.06u SN	NOTE 3 & 4	
69154-6XX	30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN SEE NOTE 16	100u"/160u" 2.54u/4.06u SN	NOTE 3 & 4	
~~69154-8XX~~	~~30u"/.76u Au MIN OVER 50u"/1.27u Ni MIN~~	~~100u"/160u" 2.54u/4.06u SN~~	~~NOTE 3 & 4~~	OBSOLETE

NOTES:

1. MATERIAL TERMINAL: PHOSPHOR BRONZE,

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 GIVEN TERMINAL SPACING WITHIN .015/.38. DIA.
   - C. SUGGESTED MATING PIN LENGTH .210 ±.020/5.33 ±.51.

3. MATERIAL HOUSING: P.P.S. FILLED,COLOR BLACK
   FLAME RETARDANT PER UL 94V-0.
   COMPATIBLE WITH INFRA-RED SOLDERING.
   THIS PART WILL WITHSTAND EXPOSURES TO 260°C PEAK TEMPERATURE FOR 20 SECONDS IN WAVE SOLDER, INFRA-RED OR VAPOR PHASE SOLDER PROCESS.

4. PRESTAMPED POST PLATED TERMINALS.

5. FCI, FCI FINAL PART NUMBER AND DATE CODE TO BE MARKED ON TUBE LABEL.

6. STANDARD PACKAGING PER BUS-14-097.

7. TAPE AND REEL PACKAGING PER GES-14-334.

8. CARRIER TAPE WIDTH 24 MIN. & BELOW TO HAVE PILOT HOLES ON ONE SIDE OF TAPE ONLY. SIZES ABOVE 24mm TO HAVE PILOT HOLES ON BOTH SIDES OF TAPE.

9. VACUUM CAP MATERIAL FOR TAPE & REEL PACKAGING:
   L.C.P., FLAME RETARDANT PER UL 94V-0.
   COLOR: BLACK

10. ADD SUFFIX "P" TO PART DASH NUMBER FOR TAPE AND REEL PACKAGING.
    EXAMPLE: 69154-XXXP

11. MAXIMUM LENGTH OF CONNECTOR FOR TAPE AND REEL PACKAGING IS 2.50 INCHES LONG/63.5 MM.

12. TAPE & REEL PACKAGING 72mm WIDE
    TAPE WITH 16mm POCKET PITCH.

13. ADD LF SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.

14. THESE PRODUCTS MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATION AS DESCRIBED IN GS-22-008.

15. "THIS PRODUCT HAS 100% TIN PLATING IN THE INTERFACE AND HAS NOT BEEN TESTED FOR WHISKER GROWTH IN ALL INTERCONNECT ENVIRONMENTS."

16. PLATING OPTIONS:
    MAY BE EITHER GOLD OR GXT PLATED AT MANUFACTURER'S OPTION.

| | | |

PRODUCT NO	NO OF POS	DIM C	DIM D	DIM E	TAPE & REEL PACKAGING	LF OPTION
69154-Y02	2 X 2	.100/2.54	.417/10.59	.300/7.62	NO	NOTE 13
69154-Y03	2 X 3	.200/5.08	.517/13.13	.400/10.16	NO	
69154-Y04	2 X 4	.300/7.62	.617/15.67	.500/12.70	NO	
69154-Y05	2 X 5	.400/10.16	.717/18.21	.600/15.24	NO	
69154-Y06	2 X 6	.500/12.70	.817/20.75	.700/17.78	NO	
69154-Y07	2 X 7	.600/15.24	.917/23.29	.800/20.32	NO	
69154-Y08	2 X 8	.700/17.78	1.017/25.83	.900/22.86	NO	
69154-Y09	2 X 9	.800/20.32	1.117/28.37	1.000/25.40	NO	
69154-Y10	2 X 10	.900/22.86	1.217/30.91	1.100/27.94	NO	
69154-Y11	2 X 11	1.000/25.40	1.317/33.45	1.200/30.48	NO	
69154-Y12	2 X 12	1.100/27.94	1.417/35.99	1.300/33.02	NO	
69154-Y13	2 X 13	1.200/30.48	1.517/38.53	1.400/35.56	NO	
69154-Y14	2 X 14	1.300/33.02	1.617/41.07	1.500/38.10	NO	
69154-Y15	2 X 15	1.400/35.56	1.717/43.61	1.600/40.64	NO	
69154-Y16	2 X 16	1.500/38.10	1.817/46.15	1.700/43.18	NO	
69154-Y17	2 X 17	1.600/40.64	1.917/48.69	1.800/45.72	NO	
69154-Y18	2 X 18	1.700/43.18	2.017/51.23	1.900/48.26	NO	
69154-Y19	2 X 19	1.800/45.72	2.117/53.77	2.000/50.80	NO	
69154-Y20	2 X 20	1.900/48.26	2.217/56.31	2.100/53.34	NO	
69154-Y21	2 X 21	2.000/50.80	2.317/58.85	2.200/55.08	NO	
69154-Y22	2 X 22	2.100/53.34	2.417/61.39	2.300/58.42	NO	
69154-Y23	2 X 23	2.200/55.88	2.517/63.93	2.400/60.96	NO	
69154-Y24	2 X 24	2.300/58.42	2.617/66.47	2.500/63.50	NO	
69154-Y25	2 X 25	2.400/60.96	2.717/69.01	2.000/66.04	NO	

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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							
U				angles 0°±2°	linear .XX±.01/.X±.3 .XXX±.005/.XX±.13 .XXXX±.0020/.XXX±.051	INCH/MM scale 1:1	title SMT DOUBLE ROW VCC ASSEMBLY				
				dr J. SHREINER 12/31/90							
				engr M. HAHN 12/31/90							
				chr M. HAHN 12/31/90							
				appd M. HAHN 12/31/90			dwg no 69154	sheet 5 of 6	size A3		
sheet index	revision sheet						type Product Customer Drawing				

form A3

PRODUCT NO	NO OF POS	DIM C	DIM D	DIM E	TAPE & REEL PACKAGING	LF OPTION
69154-Y26	2 X 26	2.500/63.50	2.817/71.55	2.700/68.58	NO	NOTE 13
69154-Y27	2 X 27	2.600/66.04	2.917/74.09	2.800/71.12	NO	
69154-Y28	2 X 28	2.700/68.58	3.017/76.63	2.900/73.66	NO	
69154-Y29	2 X 29	2.800/71.12	3.117/79.17	3.000/76.20	NO	
69154-Y30	2 X 30	2.900/73.66	3.217/81.71	3.100/78.74	NO	
69154-Y31	2 X 31	3.000/76.20	3.317/84.25	3.200/81.28	NO	
69154-Y32	2 X 32	3.100/78.74	3.417/86.79	3.300/83.32	NO	
69154-Y33	2 X 33	3.200/81.28	3.517/89.33	3.400/86.36	NO	
69154-Y34	2 X 34	3.300/83.32	3.617/91.87	3.500/88.90	NO	
69154-Y35	2 X 35	3.400/86.36	3.717/94.41	3.600/91.44	NO	
69154-Y36	2 X 36	3.500/88.90	3.817/96.95	3.700/93.98	NO	
69154-Y37	2 X 37	3.600/91.44	3.917/99.49	3.800/96.52	NO	
69154-Y38	2 X 38	3.700/93.98	4.017/102.03	3.900/99.06	NO	
69154-Y39	2 X 39	3.800/96.52	4.117/104.57	4.000/101.60	NO	
69154-Y40	2 X 40	3.900/99.06	4.217/107.11	4.100/104.14	NO	
69154-Y41	2 X 41	4.000/101.60	4.317/109.65	4.200/106.68	NO	
69154-Y42	2 X 42	4.100/104.14	4.417/112.19	4.300/109.22	NO	
69154-Y43	2 X 43	4.200/106.68	4.517/114.73	4.400/111.76	NO	
69154-Y44	2 X 44	4.300/109.22	4.617/117.27	4.500/114.30	NO	
69154-Y45	2 X 45	4.400/111.76	4.717/119.81	4.600/116.84	NO	
69154-Y46	2 X 46	4.500/114.30	4.817/122.35	4.700/119.38	NO	
69154-Y47	2 X 47	4.600/116.84	4.917/124.89	4.800/121.92	NO	
69154-Y48	2 X 48	4.700/119.38	5.017/127.43	4.900/124.46	NO	
69154-Y49	2 X 49	4.800/121.92	5.117/129.97	5.000/127.00	NO	
69154-Y50	2 X 50	4.900/124.46	5.217/132.51	5.100/129.54	NO	
69154-Y16P	2 X 16	1.500/38.10	1.817/46.15	1.700/43.18	YES – NOTE 10 & 12	

mat'l. code				surface ISO 1302	tolerance ISO 406 ISO 1101	projection	product family DUBOX				
ltr	ecn	nodr	date	tolerances unless otherwise specified			title				
V				angles	linear	.XX±.01/.X±.3	INCH/MM	SMT DOUBLE ROW VCC ASSEMBLY			
				0°±2°		.XXX±.005/.XX±.13					
						.XXXX±.0020/.XXX±.051	scale 1:1				
				dr	J. SHREINER	12/31/90		dwg no 69154	sheet 6 of 6	size A3	
				engr	M. HAHN	12/31/90					
				chr	M. HAHN	12/31/90					
				appd	M. HAHN	12/31/90		type Product Customer Drawing			
sheet index	revision sheet										

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