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Form A3

1

2

3

PDS: Rev :R

STATUS: Released

Printed: May 24, 2013

66953-XXXLF

LEAD FREE OPTION (NOTE 5,6)

NUMBER OF POSITIONS

MARKING CODE (SEE TABLE)

BASE NUMBER

 $\square .034$
0.86
TYP $.070$
1.78 REF
2 PLACES $.100$
2.54 $.240$
6.10 $.100 \pm .004$
 2.54 ± 0.10

NON-ACCUMULATIVE

DIM A $\pm .004$
 ± 0.10 $.325 \pm .010$
 8.25 ± 0.25

-Z-

 $.013$
0.32 REF $.138$
3.51 $.029$
0.74
TYP REF $.100$
2.54
TYP $\perp Z .005 / .13$
TYP $.047$
1.19 REF
2 PLACES

DIM B MAX

 $.010$
0.25 REF
2 PLACES $.100$
2.54
AT HOUSING

mat'l. code		surface ISO 1302 ✓		tolerance ISO 406 ISO 1101	projection 	product family VCC	
l	tr	ec	n	dr	date	title	
R	ELX-N-1478	ZK	5/17/13	angles	linea	VERT. CARD CONNECTOR	
K	V70788	LSS	6/12/97	0°±2'		D/R .100/2.54 CC	
L	V80354	EPK	3/6/98	dr	M. FETROW	6/26/89	
M	V94468	MDF	1/11/00	engr	M. HAHN	6/26/89	
N	M05-0124	MHT	6/06/05	chr	M. HAHN	6/26/89	
P	M07-0143	ERE	03/03/07	appd	M. HAHN	6/26/89	
sheet	revision	R	R	R			
index	sheet	1	2	3			
dwg no		sheet of 3		size			
66953		A3					
type		Product		Customer Drawing			



PRODUCT NO.	MARKING CODE	PLATING CODE
66953-0XX	STANDARD MARKING PER NOTE 3	BODY PLATING: 30u"/0.76um Au OVER 50u"/1.27um Ni ON CONTACT AREA. 100u"/2.54um Sn (NOTE 8) OVER 50u"/1.27um Ni ON SOLDER TAIL. SPRING PLATING: GOLD FLASH.
66953-8XX	SPECIAL MIL MARKING PER NOTE 5	
66953-1XX	STANDARD MARKING PER NOTE 3	BODY PLATING: 30u"/0.76um Au OVER 50u"/1.27um Ni ON CONTACT AREA. GOLD FLASH OVER 50u"/1.27um Ni ON SOLDER TAIL. SPRING PLATING: GOLD FLASH.

OBS

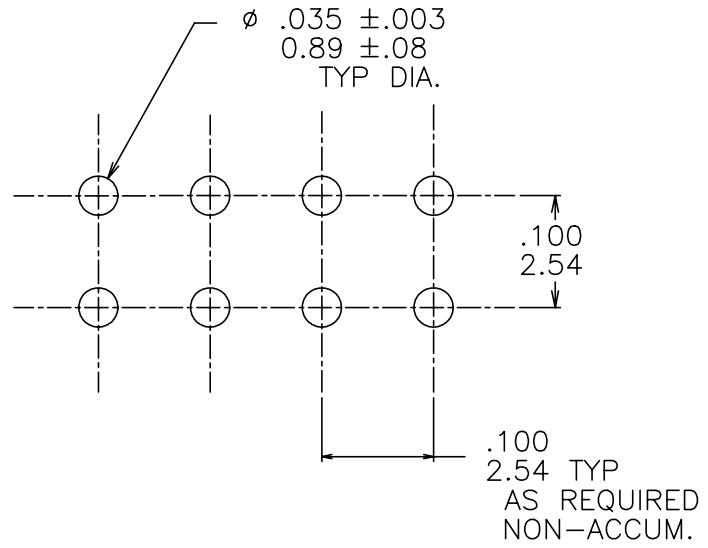


FIG. 1
SCALE 6:1

NOTES.

- HOUSING MATERIAL: FILLED POLYESTER,
FLAME RETARDANT PER UL 94V-0.
COLOR: BLACK.
- TERMINAL MATERIAL:
BODY: COPPER ALLOY
SPRING: COPPER ALLOY
- MARK FCI PART NUMBER AND DATE CODE LEGIBLE ON TUBE LABEL.
- APPLICATION INFORMATION.
A. RECOMMENDED MOUNTING HOLE PATTERN IS SHOWN IN FIG. 1
B. ALL MATING PINS TO BE .025/.64 SQUARE ON TRUE CENTER OF GIVEN
TERMINAL SPACINGS, WITHIN .015/.38 DIAMETER.
C. SUGGESTED MATING PIN LENGTH, .210 ±.020/5.33 ±.51.
- ADD "LF" SUFFIX AT THE END OF PART NUMBER FOR LEAD FREE OPTION.
- THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER
COUNTRY REGULATION AS DESCRIBED IN GS-22-008.
- THE HOUSING WILL WITHSTAND EXPOSURE TO 260°C PEAK TEMPERATURE
FOR 15 SECONDS IN A WAVE SOLDER APPLICATION WITH A 1.5mm
MINIMUM THICK CIRCUIT BOARD. SEE APPLICATION NOTES/PROCEDURES
IF THEY ARE AVAILABLE.
- "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 VCC	
ltr ecn nchr date		tolerances unless otherwise specified		title		VERT. CARD CONNECTOR D/R .100/2.54 CC			
P		angles	linea	.XX±.01/.X±.3 .XXX±.0.005/.XXX±.13 .XXX±.0020/.XXX±.051		scale 1:1		dwg no 66953	
		dr	M. FETROW	6/26/89		FCI		shee 2 of 3	
		engr	M. HAHN	6/26/89				size A3	
		chr	M. HAHN	6/26/89					
		appd	M. HAHN	6/26/89				type Product Customer Drawing	
sheet index	revision sheet								



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PRODUCT NO.		NO OF POSITIONS	DIM A	DIM B	DESC PART NUMBER ON -8XX SERIES ONLY
66953-Y01		U N A S S I G N E D			
↑	-Y02	2 X 2	.100/2.54	.200/5.08	WWWWW-02
	-Y03	2 X 3	.200/5.08	.300/7.62	WWWWW-03
	-Y04	2 X 4	.300/7.62	.400/10.16	WWWWW-04
	-Y05	2 X 5	.400/10.16	.500/12.70	WWWWW-05
	-Y06	2 X 6	.500/12.70	.600/15.24	WWWWW-06
	-Y07	2 X 7	.600/15.24	.700/17.78	WWWWW-07
	-Y08	2 X 8	.700/17.78	.800/20.32	WWWWW-08
	-Y09	2 X 9	.800/20.32	.900/22.86	WWWWW-09
	-Y10	2 X 10	.900/22.86	1.000/25.40	WWWWW-10
	-Y11	2 X 11	1.000/25.40	1.100/27.94	WWWWW-11
	-Y12	2 X 12	1.100/27.94	1.200/30.48	WWWWW-12
	-Y13	2 X 13	1.200/30.48	1.300/33.02	WWWWW-13
	-Y14	2 X 14	1.300/33.02	1.400/35.56	WWWWW-14
	-Y15	2 X 15	1.400/35.56	1.500/38.10	WWWWW-15
	-Y16	2 X 16	1.500/38.10	1.600/40.64	WWWWW-16
	-Y17	2 X 17	1.600/40.64	1.700/43.18	WWWWW-17
	-Y18	2 X 18	1.700/43.18	1.800/45.72	WWWWW-18
	-Y19	2 X 19	1.800/45.72	1.900/48.26	WWWWW-19
	-Y20	2 X 20	1.900/48.26	2.000/50.80	WWWWW-20
	-Y21	2 X 21	2.000/50.80	2.100/53.34	WWWWW-21
	-Y22	2 X 22	2.100/53.34	2.200/55.88	WWWWW-22
	-Y23	2 X 23	2.200/55.88	2.300/58.42	WWWWW-23
	-Y24	2 X 24	2.300/58.42	2.400/60.96	WWWWW-24
	-Y25	2 X 25	2.400/60.96	2.500/63.50	WWWWW-25
	-Y26	2 X 26	2.500/63.50	2.600/66.04	WWWWW-26
	-Y27	2 X 27	2.600/66.04	2.700/68.58	WWWWW-27
	-Y28	2 X 28	2.700/68.58	2.800/71.12	WWWWW-28
	-Y29	2 X 29	2.800/71.12	2.900/73.66	WWWWW-29
	-Y30	2 X 30	2.900/73.66	3.000/76.20	WWWWW-30
	-Y31	2 X 31	3.000/76.20	3.100/78.74	WWWWW-31
	-Y32	2 X 32	3.100/78.74	3.200/81.28	WWWWW-32
	-Y33	2 X 33	3.200/81.28	3.300/83.82	WWWWW-33
	-Y34	2 X 34	3.300/83.82	3.400/86.36	WWWWW-34
↓	-Y35	2 X 35	3.400/86.36	3.500/88.90	WWWWW-35
	66953-Y36	2 X 36	3.500/88.90	3.600/91.44	WWWWW-36

LF PRODUCT NO.		NO OF POSITIONS		DIM A		DIM B		DESC PART NUMBER ON -8XX SERIES ONLY	
66953-Y01LF		U N A S S I G N E D							
	↑	-Y03LF	2 X 3	.200/5.08	.300/7.62	----- WWWWWW -03 -----			
		-Y04LF	2 X 4	.300/7.62	.400/10.16	----- WWWWWW -04 -----			
		-Y05LF	2 X 5	.400/10.16	.500/12.70	----- WWWWWW -05 -----			
		-Y06LF	2 X 6	.500/12.70	.600/15.24	----- WWWWWW -06 -----			
		-Y07LF	2 X 7	.600/15.24	.700/17.78	----- WWWWWW -07 -----			
		-Y08LF	2 X 8	.700/17.78	.800/20.32	----- WWWWWW -08 -----			
		-Y09LF	2 X 9	.800/20.32	.900/22.86	----- WWWWWW -09 -----			
		-Y10LF	2 X 10	.900/22.86	1.000/25.40	----- WWWWWW -10 -----			
		-Y11LF	2 X 11	1.000/25.40	1.100/27.94	----- WWWWWW -11 -----			
		-Y12LF	2 X 12	1.100/27.94	1.200/30.48	----- WWWWWW -12 -----			
		-Y13LF	2 X 13	1.200/30.48	1.300/33.02	----- WWWWWW -13 -----			
		-Y14LF	2 X 14	1.300/33.02	1.400/35.56	----- WWWWWW -14 -----			
		-Y15LF	2 X 15	1.400/35.56	1.500/38.10	----- WWWWWW -15 -----			
		-Y16LF	2 X 16	1.500/38.10	1.600/40.64	----- WWWWWW -16 -----			
		-Y17LF	2 X 17	1.600/40.64	1.700/43.18	----- WWWWWW -17 -----			
		-Y18LF	2 X 18	1.700/43.18	1.800/45.72	----- WWWWWW -18 -----			
		-Y19LF	2 X 19	1.800/45.72	1.900/48.26	----- WWWWWW -19 -----			
		-Y20LF	2 X 20	1.900/48.26	2.000/50.80	----- WWWWWW -20 -----			
		-Y21LF	2 X 21	2.000/50.80	2.100/53.34	----- WWWWWW -21 -----			
		-Y22LF	2 X 22	2.100/53.34	2.200/55.88	----- WWWWWW -22 -----			
		-Y23LF	2 X 23	2.200/55.88	2.300/58.42	----- WWWWWW -23 -----			
		-Y24LF	2 X 24	2.300/58.42	2.400/60.96	----- WWWWWW -24 -----			
		-Y25LF	2 X 25	2.400/60.96	2.500/63.50	----- WWWWWW -25 -----			
		-Y26LF	2 X 26	2.500/63.50	2.600/66.04	----- WWWWWW -26 -----			
		-Y27LF	2 X 27	2.600/66.04	2.700/68.58	----- WWWWWW -27 -----			
		-Y28LF	2 X 28	2.700/68.58	2.800/71.12	----- WWWWWW -28 -----			
		-Y29LF	2 X 29	2.800/71.12	2.900/73.66	----- WWWWWW -29 -----			
		-Y30LF	2 X 30	2.900/73.66	3.000/76.20	----- WWWWWW -30 -----			
		-Y31LF	2 X 31	3.000/76.20	3.100/78.74	----- WWWWWW -31 -----			
		-Y32LF	2 X 32	3.100/78.74	3.200/81.28	----- WWWWWW -32 -----			
		-Y33LF	2 X 33	3.200/81.28	3.300/83.82	----- WWWWWW -33 -----			
		-Y34LF	2 X 34	3.300/83.82	3.400/86.36	----- WWWWWW -34 -----			
	↓	-Y35LF	2 X 35	3.400/86.36	3.500/88.90	----- WWWWWW -35 -----			
		66953-Y36LF	2 X 36	3.500/88.90	3.600/91.44	----- WWWWWW -36 -----			

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ltr ecn nldr date		tolerances unless otherwise specified						title	
R				angles	linea	.XX±.01/.X±.3 .XXX±.0.005/.XXX±.13 .XXX±.0020/.XXX±.051		INCH/MM	
				0'±2'				scale 1:1	
				dr	M. FETROW	6/26/89			
				engr	M. HAHN	6/26/89			
				chr	M. HAHN	6/26/89			
				appd	M. HAHN	6/26/89	dwg no 66953 sheet 5 of 3 size A3		
sheet index		revision sheet		type Product Customer Drawing					

Mouser Electronics

Authorized Distributor

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FCI:

[66953-018LF](#)