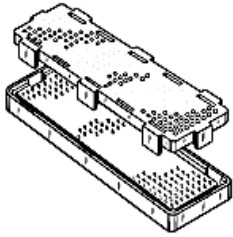


74390-101LF - MEG-ARRAY®
: 400 Position BGA
Receptacle, 8mm Component
Height, 1.27mm x 1.27mm
Array, Lead-free



www.fci.com



Specifications

General	
Gender	Receptacle
Number of contacts (Total)	400
Quantity (per reel)	200
Dimensional	
Height (Mated)	8mm 14mm
Spacing (Board - approx. after soldering)	8 mm (0.315 in.) or 14 mm (0.551 in.)
Electrical	
Current rating	0.45 amps
Resistance (Contact)	20 to 25 m ohms max. (Initial), 10 m ohms max. increase (After testing)
Resistance (Insulation)	1000 M ohms
Voltage rating	200V AC
Mechanical	
Durability (Mating cycles)	50
Withdrawal Force	20 grams Per contact average
Mating force	30 grams Per contact average
Physical	
Material (Contact)	Copper Alloy
Material (Tail)	Lead-free solder balls: 95.5Sn / 4Ag / 0.5Cu
Material (Housing)	LCP
Plating (Contact area)	0.76 µm (30 µin.) Gold over 0.76 µm (30 µin.) Nickel
Temperature (Operating - range)	-40°C to +85°C
Approvals / Certifications	
UL File Number	E66906
CSA File Number	E66906
Approvals / Certifications	UL and CSA Approved
Other Features	
Most Popular Configuration	-
Packaging (Type)	Tape and Reel
Literature	950554-001
Pick-up Cap	Yes



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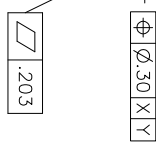
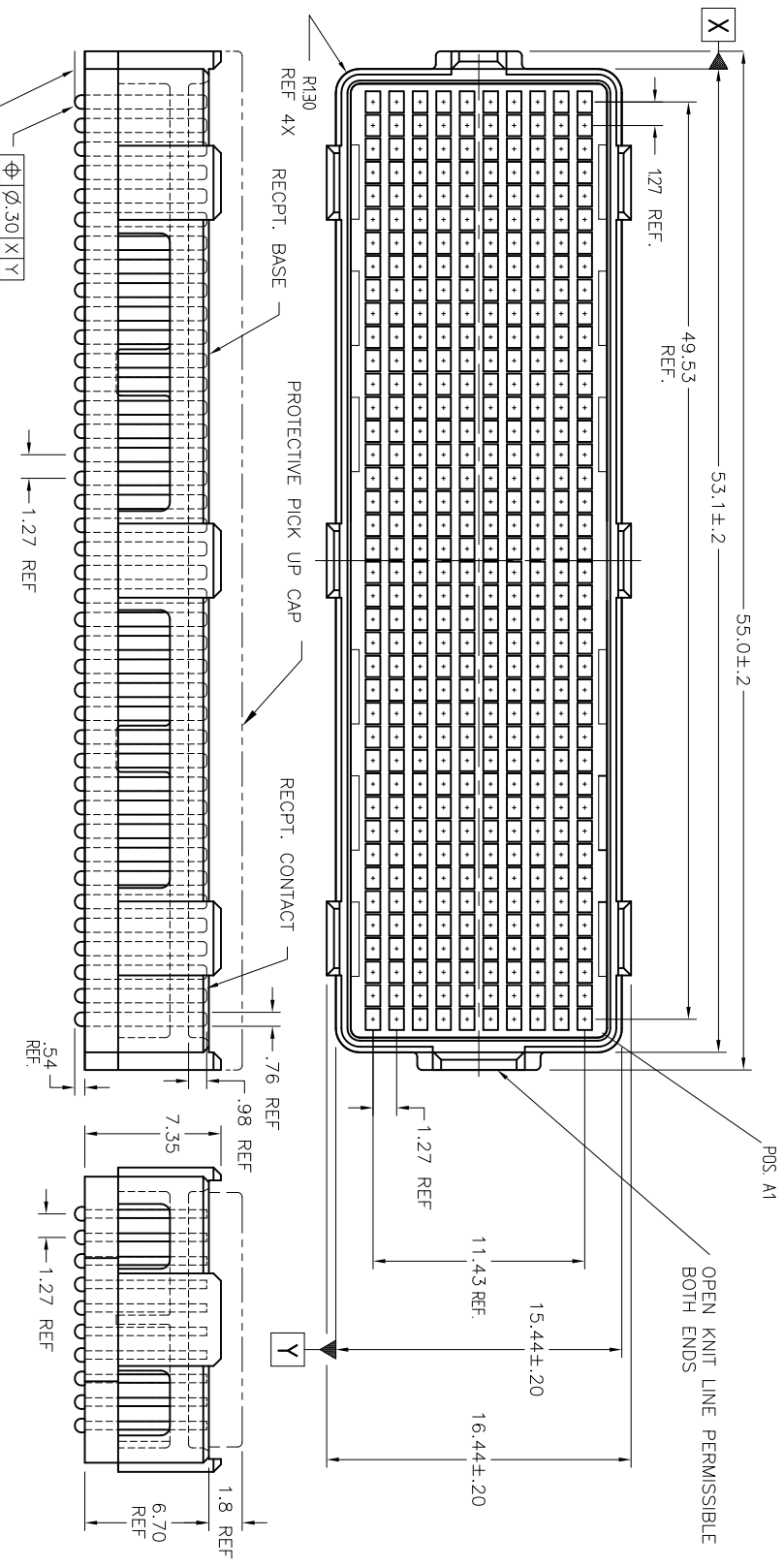


PRODUCT NUMBER
SEE SHEET 3

1 | 2

3 |

4



Mat'l. code	SEE NOTE 1	date	surface	tolerance	projection	product family	title
lfr	ecm no.	dfr	ASME Y14.5	ASME Y14.5		MEG-ARRAY	
L	V06-0560	LP	2006-06-29	angles	MM		8mm RECPT. ASSY
M	V09-0499	RE	2009-10-21	XXX.13			10 X 40 = 400 POS.
N	V-012332	RE	2002-08-08	XXX.051	Scale: 3:1		
P	V-B977-1	DCH	2002-11-06	D	WALSHEN	1998-01-05	
R	V-B9499	DCH	2005-11-20	PLQJ	T LEMKE	1998-01-05	
K	V04-0940	VS	2004-10-18	DDJ	T LEMKE	1998-01-05	
Sheet Index	revision						
	1	2	3				

B

A

Form: A4mmX1c

1

2

3

4

B

A

NOTES:

1. MAT'L:

HOUSING: LCP
CONTACT: COPPER ALLOY

PLATING

CONTACT: (SEE TABLE ON SHEET 3)
SOLDER BALL: (SEE TABLE ON SHEET 3)
EUTECTIC SnPb OR LEAD FREE
95.5Sn/44g/0.5Cu

2. SOLDER BALLS WILL NOT BE PERFECT SPHERICAL SHAPE DUE TO REFLOW ATTACHMENT.

3. MATED HEIGHT EFFECTED BY CUSTOMER'S PCB PAD SIZE, PLATING, SOLDER REFLOW PROFILE, & SOLDER PASTE.

4. PLATING FOR INDICATED -2XX SERIES PRODUCT NUMBERS MEET THE REQUIREMENTS OF GR-1217-CORE, CENTRAL OFFICE ENVIRONMENT, (25 YEAR LIFE EXPECTANCY). THE CONTACT GEOMETRY IN THESE PRODUCT NUMBERS IS SPECIAL ALSO.

5. FOR PROPER APPLICATION FOLLOW FCI APPLICATION SPECIFICATION GS-20-033 LEAD FREE SOLDER BALLS WILL NOT SOLDER PROPERLY IN A LEADED SOLDER PROCESS DUE TO A HIGHER REFLOW TEMPERATURE. LEAD FREE PRODUCT IS THEREFORE NOT BACKWARDS COMPATIBLE WITH LEADED OR SOME SOLDERING APPLICATIONS. REFERENCE FCI APPLICATION SPECIFICATION

6. THIS PRODUCT MEETS EUROPEAN UNION DIRECTIVES AND OTHER COUNTRY REGULATIONS AS DESCRIBED IN GS-47-0004 PRODUCT MEETING THIS DIRECTIVE IS IDENTIFIED IN THE LOT CODE NUMBER MARKED ON EACH PART BY HAVING AN "X" IN THE SEVENTH CHARACTER POSITION

7. COMPANY LOGO TO APPEAR IN THIS AREA.

8. 74390-302, -302LF, -402, -402LF, -502 AND -502LF ARE OBSOLETE

PRODUCT NUMBER	PICK-UP CAP (NATURAL OR BLACK COLOR)	CONTACT PLATING AND THICKNESS	SOLDER BALL	NOTES
74390-001	YES	15u" (.38um) Au	SnPb	
74390-001LF	YES	15u" (.38um) Au	LEAD FREE	6
74390-091	YES	15u" (.38um) GXT	SnPb	
74390-091LF	YES	15u" (.38um) GXT	LEAD FREE	6
74390-101	YES	30u" (.76um) Au	SnPb	
74390-101LF	YES	30u" (.76um) Au	LEAD FREE	6
74390-191	YES	30u" (.76um) GXT	SnPb	
74390-191LF	YES	30u" (.76um) GXT	LEAD FREE	6
74390-201	YES	50u" (1.27um) Au SPECIAL	SnPb	4
74390-201LF	YES	50u" (1.27um) Au SPECIAL	LEAD FREE	4 AND 6
74390-291	YES	50u" (1.27um) GXT SPECIAL	SnPb	4
74390-291LF	YES	50u" (1.27um) GXT SPECIAL	LEAD FREE	4 AND 6
74390-301	YES	15u" (.38um) Au SPECIAL	SnPb	8
74390-301LF	YES	15u" (.38um) Au SPECIAL	LEAD FREE	6 AND 8
74390-401	YES	30u" (.76um) Au SPECIAL	SnPb	8
74390-401LF	YES	30u" (.76um) Au SPECIAL	LEAD FREE	6 AND 8
74390-501	YES	Au SPECIAL	SnPb	4 AND 8
74390-501LF	YES	Au SPECIAL	LEAD FREE	4, 6 AND 8

10. A  SYMBOL WILL BE NEXT TO ANY DIMENSION, NEW VIEW OR NOTE WHICH HAS BEEN MODIFIED WITH THE CURRENT DRAWING REVISION

mat'l code	SEE NOTE 1	surface ASME Y14.5	tolerance ASME Y14.5	projection	product family
lfr	ecm no	dr	date	intolerances unless otherwise specified	MEG-ARRAY
R		angles	XXX.X	MM	8mm REOPT. ASSY.
		0° ±2°	XXX.X	Scale: 2:1	10x40 = 400 POS.
		dr	D WAUSCHEN		Sheet 3 of 3
		plqj	T LEMKE		size
		cltr	T LEMKE		A4
		qjdd	T LEMKE		CUSTOMER Drawing
sheet	revision				
index	sheet				