



**THE DATASHEET OF**  
**55714-102LF**



## MEG-Array®

### PROVEN BGA CONNECTOR FOR RELIABILITY AND HIGH DATA RATES

Patented BGA design, offering industry leading self-leveling and self-centering. 1.27mm x 1.27mm array of discrete circuit contacts allows flexible ground distribution to optimize high speed signal integrity at speeds up to 32 Gbps.

- High density, high speed, dual-point contacts
- 32 Gbps performance documented for 4mm and 6mm stack heights
- 1.27mm x 1.27mm grid, 71 contacts per cm<sup>2</sup>
- Wide range of sizes and PCB stack heights
- Self-alignment and leveling for multiple connector use



#### TARGET MARKETS



#### FEATURES

- 22+ year old solder joint reliability per IPC-SM-785
- Telcordia GR-1217-CORE and NPS-25298-2
- Stack heights available from 4mm to 14mm
- Pin counts 40 to 528 positions
- Multiple in-process vision systems

#### BENEFITS

- Long term quality and reliability
- Verified performance through environmental stress and uncontrolled environments
- Fits a large range of customer applications
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- BGA and contact integrity

# TECHNICAL INFORMATION

## MATERIAL

- Housing: Liquid crystal polymer
- Contact: Copper alloy
- Solder sphere: Lead Free

## ELECTRICAL PERFORMANCE

- Insulation resistance: 1000mΩ min.
- Dielectric withstanding voltage: 200 VAC max
- 2.0A < 30°C Δ T (single contact energized)

## MECHANICAL PERFORMANCE

- Durability: 50, 100, or 200 cycles
- Contact Wipe: 0.80mm Nominal
- IPC-SM-785 Solder Joint Reliability: 22.1 year product end-of-life

## ENVIRONMENTAL

- Telcordia GR-1217-CORE

## APPROVALS AND CERTIFICATIONS

- UL File Numer: E66906

## PART NUMBERS

		MATED HEIGHT							
SIZE	TYPE	4.0mm	5.5mm	6.0mm	8.0mm	10.0mm	11.5mm	12.0mm	14.0mm
81 POSITION (9X9)	Plug	55714 / 0mm							
	Receptacle	55715 / 4mm							
100 POSITION (10X10)	Plug	84512 / 0mm							
	Receptacle	84513 / 4mm							
200 POSITION (10X20)	Plug	84516 / 0mm		84516 / 0mm	84516 / 0mm	84530 / 6mm		84530 / 6mm	84530 / 6mm
	Receptacle	84517 / 4mm		55724 / 6mm	84535 / 8mm	84517 / 4mm		55724 / 6mm	84535 / 8mm
240 POSITION (8X30)	Plug	74213 / 0mm		74213 / 0mm					
	Receptacle	74217 / 4mm		55755 / 6mm					
300 POSITION (10X30)	Plug	84500 / 0mm	84500 / 0mm		84500 / 0mm	84578 / 6mm	84578 / 6mm		84578 / 6mm
	Receptacle	84501 / 4mm	84502 / 5.5mm		84553 / 8mm	84501 / 4mm	84502 / 5.5mm		84553 / 8mm
320 POSITION (10X32)	Plug	10123981 / 0mm							
	Receptacle	10123982 / 4mm							
400 POSITION (10X40)	Plug	84740 / 0mm		84740 / 0mm	84740 / 0mm	84520 / 6mm		84520 / 6mm	84520 / 6mm
	Receptacle	74221 / 4mm		74388 / 6mm	74390 / 8mm	74221 / 4mm		74388 / 6mm	74390 / 8mm
528 POSITION (12X44)	Plug			10022671 / 0mm					
	Receptacle			10026846 / 6mm					

## SPECIFICATIONS

- Product specification: GS-12-100
- Application specification: GS-20-033

## PACKAGING

- Tape and Reel

## TARGET MARKETS/APPLICATIONS



Automotive



Data



Telecommunication



Industrial & Instrumentation



Consumer



Medical

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