

GIG-Array®

PROVEN RELIABLE AND ROBUST BGA CONNECTOR

Patented BGA design, offering industry leading self-leveling and self-centering. Utilizing a 100Ω differential matched impedance design allows for optimal design flexibility while yielding less than 1% cross-talk performance up to 10 Gbps.

- Ball Grid Array (BGA) termination
- 1mm x 0.65mm BGA interface pitch
- Stack heights available from 15mm to 40mm
- 158 signal contacts per linear inch
- Dual beam signal contacts



TARGET MARKETS



FEATURES

- 100Ω differential pair matched impedance
- Dual beam signal contacts
- Polarized design
- RoHS compliant
- Fully automated quality control systems

BENEFITS

- Assures consistent high speed performances
- Provides two points of contact increasing product reliability
- Assures proper mating of the connector
- Lead free
- Ensuring critical-to-function component attributes

TECHNICAL INFORMATION

MATERIAL

- Housing: Liquid crystal polymer
- Contact: High-strength copper alloy
- Solder sphere: Lead Free, 0.76mm diameter

ELECTRICAL PERFORMANCE

- 3.5A/contact for 3 contacts in the same area
- 1A/contact with all contacts powered in 3 adjacent wafers
- Current rating with $\leq 30^{\circ}\text{C}$ temperature rise

MECHANICAL PERFORMANCE

- Durability: 25 cycles
- Contact wipe: 2.00mm nominal
- IPC-SM-785 Solder Joint Reliability

ENVIRONMENTAL

- Telcordia GR-1217-CORE

SPECIFICATIONS

- Product specification: GS-12-192
- Application specification: GS-20-016

PACKAGING

- Hard tray

TARGET MARKETS/APPLICATIONS



Communications



Data



Industrial & Instrumentation

PART NUMBERS

200 POSITIONS**		PLUG HEIGHT**					
		10mm 55737	12mm 10026802	13mm 10060910	15mm 55738	20mm 55739	25mm 10054783
RECEPTACLE HEIGHT** 36mm	5mm 55740	15mm	17mm	18mm	20mm	25mm	30mm
	11mm 10081496	21mm	23mm	24mm	26mm	31mm	36mm
	15mm 10060912	25mm	27mm	28mm	30mm	35mm	40mm

296 POSITIONS**		PLUG HEIGHT**					
		10mm 55720	12mm 10026804	13mm 10060911	15mm 55700	20mm 55727	25mm 10054784
RECEPTACLE HEIGHT**	5mm 55701	15mm	17mm	18mm	20mm	25mm	30mm
	11mm 10081497	21mm	23mm	24mm	26mm	31mm	36mm
	15mm 10060913	25mm	27mm	28mm	30mm	35mm	40mm

104 POSITIONS**		PLUG HEIGHT**	
		15mm 10098180	20mm 10122145
RECEPTACLE HEIGHT**	5mm 10014370	20mm	25mm

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Mouser Electronics

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