

# PGA/PGI Series

## Pin Grid Array Sockets

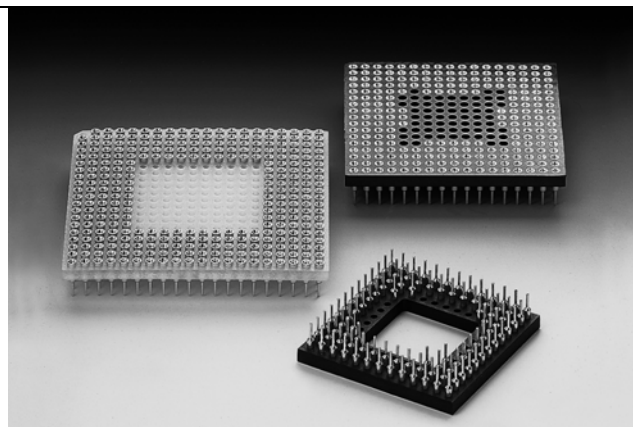


E-tec offers any configuration from 5 x 5 upwards.

You may choose between open frame and closed frame socket bodies.

The E-tec PGA sockets with Insulator code "S" will be supplied either in PBT plastic or FR4 Epoxy depending on material availability. If you wish to receive the sockets in FR4 Epoxy material only, then you need to specify the code "E" in the order code. If you only accept PBT plastic, then you have to request E-tec for availability first.

All interstitial PGA (PGI) in any grid size and standard PGA sockets with grid size 19x19 or higher are delivered in FR4 Epoxy only.



Series PGA	Series PGI	Polyester (PBT) insulator dimensions	Epoxy FR4 insulator dimensions For PGI Sockets generally
Pitch 2,54mm (.100")	Interstitial zig-zag pitch 2,54mm/1,27mm (.100"/.050")		

### Specifications

#### Mechanical data

Insertion force (avg)	0,70 N for PGA / 0,40 N for PGI
Extraction force (standard)	0,25 N for PGA / 0,15 N for PGI
Contact life	min. 100 cycles
Solderability	exceeds MIL-STD-202 Method 208
Water absorption during 24hrs at 20°C	0,05%

#### Material

Insulator:	"S" version (RoHS compliant)	Glass filled polyester UL 94 V-O
	"E" version (RoHS compliant)	Glass Epoxy FR 4
Terminal	(RoHS compliant)	CuZn
Contact	(RoHS compliant)	BeCu

#### Electrical data

Contact resistance at 1A	4,3 mΩ typ.
Current rating	1A max. 100V
Contact capacitance at 1MHz	2 pF max.
Insulation resistance at 500V DC	5 x 10 <sup>9</sup> Ω min.
(MIL-STD-1344 Method 3003)	
Breakdown voltage at 60 Hz	1 KV min.
(MIL-STD-1344 Method 3001.1)	
Contact resistance after 1000 ins./ext. cycles	≤7 mΩ

#### Operating temperature

"E" type (FR4 Glass Epoxy)	-55°C to +220°C
"S" type (glass filled Polyester)	-65°C to +150°C

### How to order

XXX - xxx - X xxx - xx X - xx

Series	Nbr of contacts	Insulator	Terminal styles	Grid size	Config Code	Plating
<b>PGA</b> = Pin Grid Array pitch 2,54mm (.100") <b>PGI</b> = Interstitial PGA pitch 2,54mm / 1,27mm (.100" / .050") <b>PCP</b> = PGA Carrier pls. refer to page 23	refer to the next pages	<b>S</b> = Standard for PGA PBT or FR4 Epoxy (Depending on availability)  <b>E</b> = Standard for PGI Epoxy FR 4	see following page	refer to footprint pages Example: <b>18 A</b> 18 x 18 grid configuration "A" Config Code if not already shown in this catalogue can be obtained from your closest sales office.		<b>- 95</b> = tin/gold (tin leadfree) not available for adapter terminals  <b>- 55</b> = gold/gold  <b>- 99</b> = tin/tin (leadfree)