

Specifications

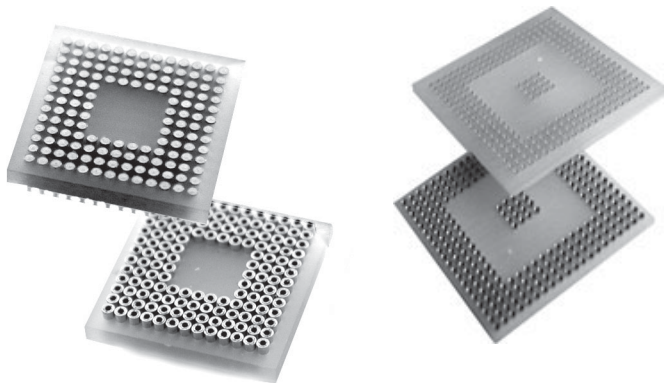
Insulation Resistance:	10,000MΩ min. at 500V rms
Withstanding Voltage:	500V rms
Max. Working Current:	1A
Max. Working Voltage:	100V rms / 150V DC for ≥ 1.27mm pitch 50V rms / 60V DC for 1.00mm pitch
Contact Resistance:	10mΩ max. at 100mA / 20mV
Operating Temp. Range:	-55°C ~ +125°C
Capacitance:	max. 1pF
Self Inductance:	max. 2nH
Mating Cycles:	100 times

Materials and Finish

Insulator:	Laminated glass-epoxy FR 4, (UL94V-0)
Contacts (stamped):	Beryllium Copper, clip Gold over Nickel
Sleeves (machined):	Brass, Tin Lead over Nickel
Adapter Pins (machined):	Brass, Gold over Nickel

Features

- ◇ The best way to make BGA pluggable on PCB without layout design change
- ◇ The socket and PCB adapter provide a high density and low profile board interconnect system
- ◇ Minimum order quantity is 3 pieces per item



Part Number for Socket (Details)

YED514 - 91 - 256 * 16 * ****

Series No.(socket)

Contact Plating:
Gold (0.25μm) over Tin

Pin Count (variable pin choice)

Pitch: K = 1.00 N = 1.50
M = 1.27 L = 2.54

Grid Size: e.g. 16 = 16 x 16

Design Number Variation in case of identical Grid and Pin Count (Internal Use)

148 = for 1.27, 1.50, 2.54mm pitch
159 = for 1.00mm pitch

Part Number for Carrier (Details)

YED550 - 10 - 256 * 16 * ****

Series No.(carrier)
YED550 or YED558

Contact Plating:
Gold (0.25μm) over Tin

Pin Count (variable pin choice)

Pitch: K = 1.00 N = 1.50
M = 1.27 L = 2.54

Grid Size: e.g. 16 = 16 x 16

Design Number Variation in case of identical Grid and Pin Count (Internal Use)

166 = YED550 Series with 1.27, 1.50, 2.54mm pitch
102 = YED558 Series with 1.00mm pitch

View of Carrier, Socket and IC

This Socket / Carrier system for BGA devices was designed for high pin count packages and a direct SMT assembly on the PCB.

The system consists of two parts:

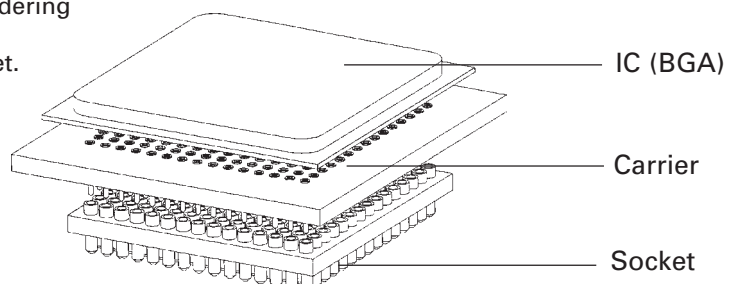
The socket

- a standard type PGA socket with female contacts for soldering or SMT connection.

The carrier

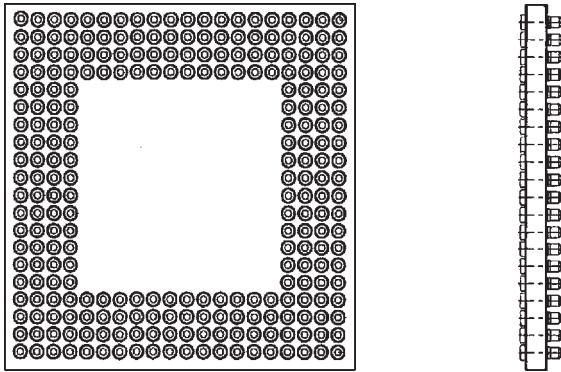
- with metal pads on top side for SMT soldering of the BGA component and the other side male contacts to plug into the socket.

Contacts are arranged in grid patterns with a pitch of 1.00, 1.27, 1.50 or 2.54mm. Any Pin Count and Pin Layout within the customers defined grid size



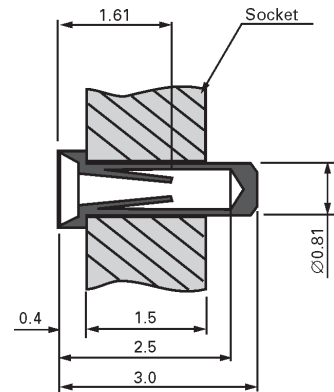
YED514/550/558 Series Adapter Socket in SMT w. Carrier (1.00/1.50/1.27/2.54mm Pitch)

Outline Socket Dimensions for YED514 Series

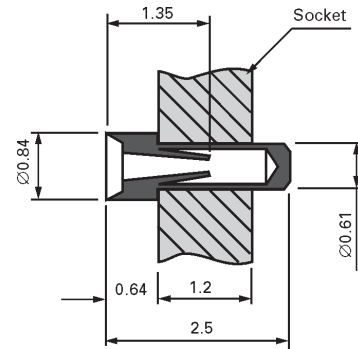


Contact Detail

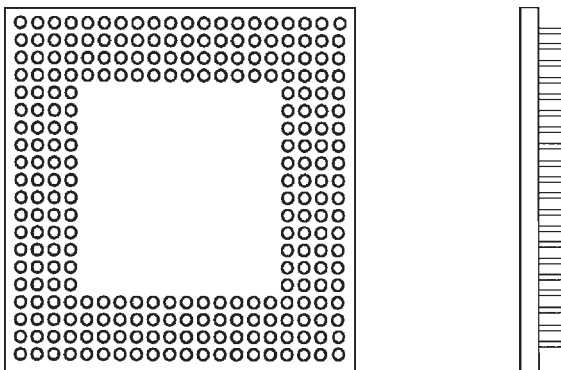
YED514 (148) 1.27, 1.50 and 2.54mm pitch



YED514 (159) 1.00mm pitch

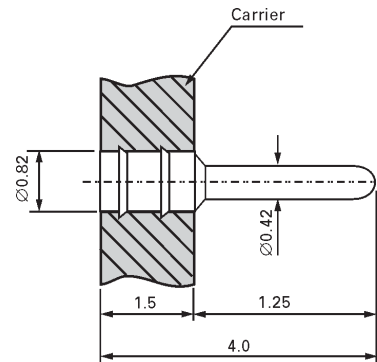


Outline Carrier Dimensions for YED550 and YED558 series



Contact Detail

YED550 (116) 1.27, 1.50 and 2.54mm pitch



YED558 (102) 1.00mm pitch

