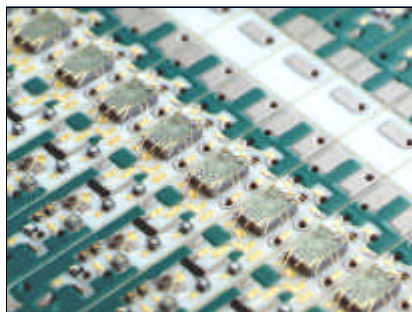


M.C.M. DIE BONDING HYBRID COB IMS

■ A better design:

Specific application
High level of integration
Mixed Asic dice SMD



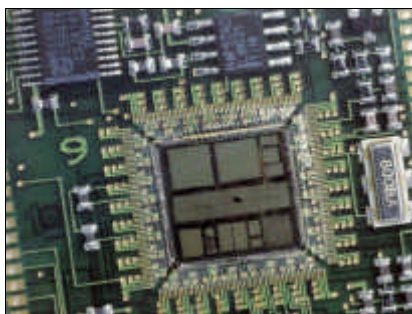
■ Chip and wire on:

Ceramic substrate
Rigid or Flex circuit
Insulated metallic substrate



■ Miniaturisation:

High density design
Accurate printed resistors
Functional trim
0402 package beam leads



■ Cost savings:

One global partner
Industrial costs
Purchasing strategy

■ Microelectronics:

Very tight space
High reliability

■ Automated process:

Die bonding
Au and Al wire bonding
Heavy wire
Epoxy glob top

■ Quality:

Total Quality System
Statistical Analysis
100% tested products

GENERAL HYBRID

23, Avenue du Général Leclerc
92340 Bourg la Reine France
Tél 33 1 45 47 60 06
Fax 33 1 46 64 74 10
Email mailbox@generalhybrid.com
<http://www.generalhybrid.com>



**M.C.M.
DIE BONDING
HYBRID COB IMS**

TECHNICAL DATA

■ **96% Alumina substrate**

Maximum size 4" x 4"
Thickness 0,635 mm or 1 mm
Dissipation 0,31 W/cm² at 70 °C
Can be tooled to suit application
Laser drilling

■ **Printed wired board**

FR4 – Flex – Teflon
Gold for bonding

■ **Insulated metal substrate IMS**

Copper tracks 70µm
High current

■ **Conductors**

Standard Silver Palladium or Gold
Glass dielectric crossovers
Track width 150 µm
Track spacing 150 µm
Plated through holes
Gold multilayer

■ **Resistors**

Range of values 1R0 to 500 Mohms
Standard tolerance ± 0,5%
Matching to ± 0,1%
Dissipation 7,75 W/cm² at 70 °C
Absolute TCR ± 100 ppm/°C
Differential TCR ± 20 ppm/°C
Functional laser trim

■ **Passivation**

Low temperature overglaze

■ **Add-on components**

Automatic assembly 0603 – 0402
Vapor phase reflow
Both side components
Automatic die assembly Flip Chip
Automatic wire bonding Ball Au
Wedge Al

■ **Leads**

Package SIL DIL or SMD
Pitch 2,54 or 1,27 mm
Length standard 3,5mm-max 9mm
Tinned leads

■ **Coating**

Epoxy powder coating
Plastic housing
Glob top

■ **Identification**

Reference logo date-code pin 1
Marking upon request

■ **Test**

100 % electrical
Statistical results
Serialisation