



Merlin Circuit Technology Ltd.

Analogue, Digital & RF Printed Circuits

www.merlincircuit.co.uk

Company Profile



- Purpose built 4,200 sq mtr factory
- High technology multilayer PCBs
- Flexible and flexi-rigid PCBs
- Most available substrates processed
- Prototypes, small and medium batch production
- High percentage export
- £4.5M turnover for 2007 / 2008

Rigid Product Range



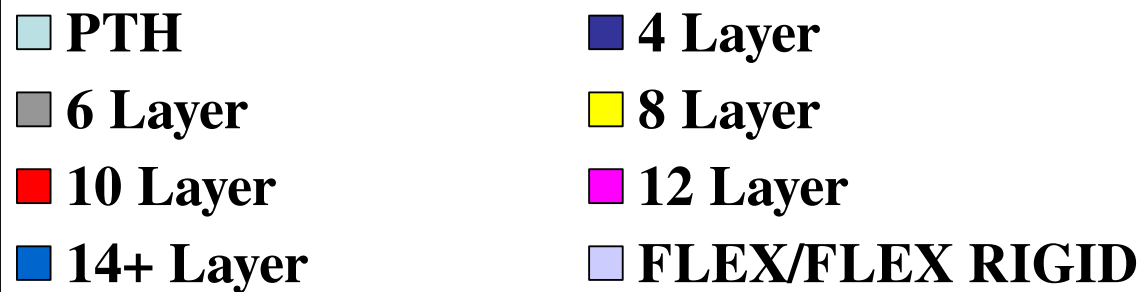
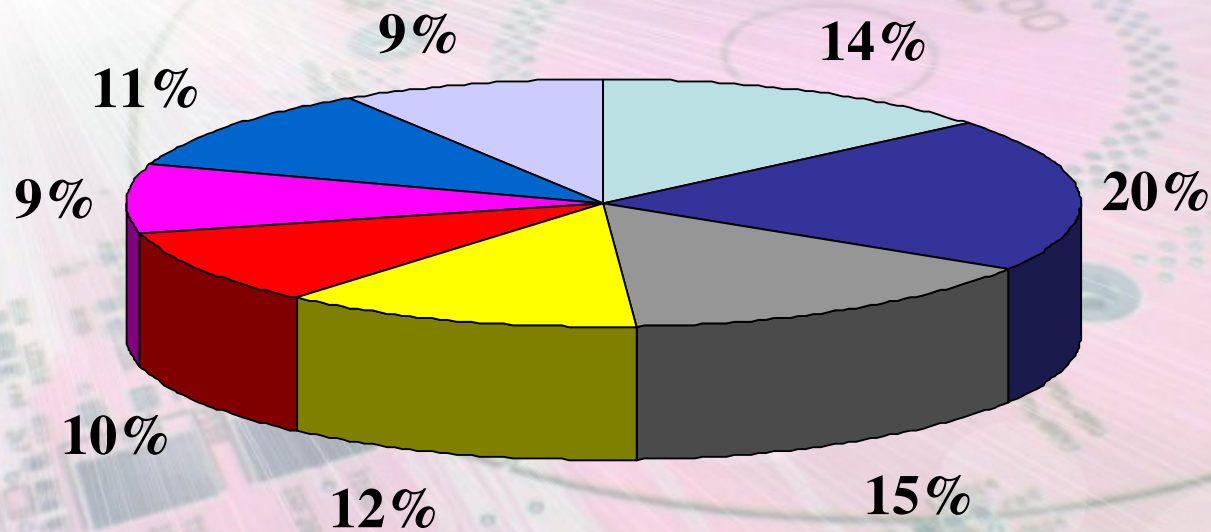
- Up to 32 layers
- 150 micron drill diameter
- 75 micron track and gap
- Buried, blind and micro-via technologies
- FR4, FR5, BT Epoxy, Polyimide, PTFE and other specialist RF laminates
- BGAs down to 0.3 mm pitch

Flexible Product Range



- Up to 8 layers using Dupont & Rogers Polyimide
- Flexi-rigid up to 12 layers (6 rigid + 6 flex)
- Polyester flexible circuits (single & double sided)
- Full fabrication details as documented in Current Capability Manual

Technology By Complexity



Delivery Timescales



Available Delivery Timescales

Rigid FR4 S/S D/S Multi	Polyimide Flex S/S D/S	Polyimide Rigid-Flex Multi	Polyester S/S D/S	PTFE S/S D/S Multi
Fast Turn	Fast Turn	Fast Turn	Fast Turn	Fast Turn
24 hrs 48 hrs 3 days 5 days 7 days 10 days	3 days 5 days 7 days 10 days	7 days 10 days	3 days 5 days 7 days 10 days	3 days * 5 days * 7 days * 10 days *
Series Production	Series Production	Series Production	Series Production	Series Production
15 days	15 days	20 days	15 days	15 days *

*** Material availability dependant**

Surface Finishes



- Electroless Nickel – Immersion Gold
- Immersion Silver
- Hot Air Solder Level (63 / 37 - Sn / Pb)
- Hot Air Solder Level (Lead Free)
- Electrolytic Nickel Gold
- OSP
- Other finishes on request

Development



- Using NC drilled micro-vias for high reliability PCBs
- MEMSA project with Heriot Watt and Greenwich Universities to develop micro-via plated aspect ratios better than 3:1
- Worked with leading CEM to develop 90 micron flip chip rigid PCBs
- Partner in HALFREE project developing Halogen free base materials

Key Messages



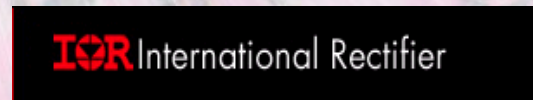
- Merlin is a fast, flexible and high technology company
- Merlin offer total customer care; from DFM advice through to detailed and accurate delivery information
- Merlin solve customers problems
- Merlin's philosophy is to find ways of saying "YES" when other companies say "NO"
- Relationship is as important as Price

Quality Approvals



- BS EN ISO 9001:2000
Certificate No: FM 23554
Originally Registered: 7 Aug 1990
- Underwriters Laboratories
File No: E111321

Major Customers



Academic Partners

