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NELEC 智领全球电子核心科技

WISDOM LEADS GLOBAL **ELECTRONIC CORE TECHNOLOGY**





YOUR GLOBAL TECHNOLOGY PARTNER

Nov-Dec 2020





ONE-STOP PROFEESIONAL EMS MANUFACTURE

科技创新 精诚共赢 Technological innovation, win-win cooperation

- With good service, superior quality, honest business and on-the time delivery.
- Provide the best and fastest innovation service of electronic technology.
- Build up win-win cooperation and mutual development.
- Change the world technology and lead the enterprise with innovation.





D. POE PCB Manufacturing Quality Control E. POE PCBs (Nov-Dec 2020) Showcase







POE China Contract Manufacturing Facility 3000m² New Factory is running now 4000 more worldwide Customers PCB Turnkey PCB Assembly Partner







POE

POE is an OEM manufacturer that focus on PCB & PCBA manufacturing over 24 years











O2 POE Team





A variety of activities inject new vitality into the POE team

Everyday work starts from the morning meeting. Share and interaction bring us power and passion to deal with working stuff. Monthly birthday party is always full of happiness and gratitude

POE had a a four-day company group tour in Guizhou in November 2020. Historical Qingyan ancient town, magnificent Huangguoshu waterfalls, amazing Libo streams, and tranquil Miao Village, we had good memories there and enjoyed a relaxing time together.





製造能力

層数 Layer	4L	2L	6L	6L	8L	10L	12L	14L	16L
結構圖 Layer Structure	U		Pro-	∃ET[]][]		13.2	Columno (
產品 類型	深孔鑽 Depth control drill	朝基板 Copper base PCB	嵌埋銅[[方銅、 凸台、盲槽] Buried copper inlaid	一開HDI、量現孔 T + N HDI, Buries holes	機械背環、蝕刻 背壁 Mechanical back drilling Etching back drill	二階HDI、POFV 2 + N HDI, POFV	厚朝 Heavy copper	沉頤孔 Countersink head holes	多层板 High layer count

項目 Item	2018製程能力 Manufature Capability	2019製程能力 Manufature Capability		
層數Layer	2-20隋/2-20Layer	2-30團/2-30Layer 0.2-5.0mm		
戲厚Thickness	0.3-3.5mm			
基訂類型Laminate Type	FR4、 High TG、 高速/高频、 企屬基	高频、 数波、 PTFE、 非PTFE高频料 &BT、 金屬基、 PI		
銅箔厚底Copper Foil Thickness	1/3-6oz	1/3-14 oz		
最小線寬/線距Min.Line Width/Space	75um/75um	50um/60um		
最小通孔直徑線距Min.Minimum through hole diameter	0.15mm	0.15mm		
画孔值徑比Mcro channel thickness ratio	12:1	15:1		
最小窨孔值在比Min, blind hole diameter	4mi	4mi		
智孔值徑比Blind aperture ratio	0:7:1	1:1		
最小介電厚度Min. Dielectric thickness	50um	50um		
佈線I購載Wiring Layer	2+N+2	E+N+3		
表面處理Surface Finish	噴錫、沉靈、沉歸、 沉輝、 HASL ENIG Immersion siver			
(創边角度) Chamfer	(角度類型) The angle type of the chamber	30*, 45*, 60*		
最大NPTH孔尺寸 Largest NPTH hole size	6.5 mm	>6.5mm		
最大PTH孔尺寸 Largest PTH hole size	6.5mm	≥6.Smm		
最小孔環 Min,annular ring can be kept	6mil	4mil		
保證有標前提IC最小問距 Min, distance between the IC for SM bridge	0.25mm	0.25m		
最小線油橋 Min.SM bridge for green soldermask	0.1mm	0.076mm		
最小黑油橋 Min.SM bridge for black soldermask	0,125mm	0.1mm		
泳型尺寸公差 Tolerance of dimension size	±0.1mm	±0.8mm		
成品酚厚公差 Tolerance of board thickness	±10%	<±8%		
成品NPTH孔徑公差 Tolerance of finished NPTH hole size	±0.05mm	±0.03mm		
成品PTH孔徑公差 Tolerance of finished PTH hole size	±0.076mm	±0.05mm		

OB Fabrication Equipments















PCB Material POE use UL 94v 0 certified













POE PCB Manufacturing Control:





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POE PCBs (Oct-Nov 2020) Showcase



Flex PCB Applications





Electric Car Charging Infrastructure





LED decorated on the Paper Books









Sports Bracelet









Industrial Computer Display Screen





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Phone Devices

OPOE TURNKEY PCB ASSEMBLY



POE is able to make all kinds of PCB assembly prototypes. We provide PCB prototype service from 1 -40 layers. We can do flexible PCB, rigid PCB, flex-rigid PCB, metal core PCB, aluminum PCB and high-frequency PCB board. NO MOQ.







POE has been providing BGA assembly, including BGA Rework and BGA Reballing services in printed circuit board assembly industry since 2003.



BGA Assembly Capability

We have a wealth of experience handling all types of BGAs, including DSBGA and other Complex Components, from micro BGAs (2mmX3mm) to large size BGAs (45 mm); from ceramic BGAs to plastic BGAs. We are capable of placing minimum 0.4 mm pitch BGAs on your PCB.



assembly.







Sourcing

3D Printing Cable Enclosure Assembly

BGA Assembly



BGA Assembly X-Ray Inspection

We use an X-Ray machine to detect various defects which might occur during BGA



BGA soldering, BGA Rework & Reballing

POE is specialized in BGA soldering service and we can assist you with BGA rework and reballing service at an affordable price! We follow five basic steps to perform BGA rework component removal, site preparation, solder paste application, BGA replacement, and reflow soldering. We guarantee that 100% of your boards will be fully functional when they are returned to you.



POE Value-Added Services



Programming & Functions Tests





Kitting Carton Box & Foam Service



PCB Stencil

Nov - Dec 2020 Fully Turnkey **PCB** Assembly Projects



2L, FR4, 1.6 mm HASL Lead Free Green Solder Mask White Silkscreen



2L, FR4, 1.6mm HASL Lead Free Green Solder Mask White Silkscreen



6L, FR4, 1.6mm HASL Lead Free Green Solder Mask White Silkscreen

Application: IoT Sensor



PCBA with Gold Finger

Telecommunication Industry

Matt Black Color

Application:

4L, FR4





4L, FR4, 1.6mm HASL Lead Free Black Solder Mask White Silkscreen

Application: **Robots Programming**



2L, 4oz copper Yellow Coverlay White Silkscreen

Application: Electric Car Chargering Infrastructure



Application: E-cigarette



2L,FR4, 1.6mm Hasl with Lead Green Solder Mask White Silkscreen

Application: Medicial Device Used in Ambulance Car



2L, FR4, 1.6 mm



HASL Lead Free Black Solder Mask White Silkscreen

2L, FR4, 1.6 mm HASL Lead Free Orange Solder Mask White Silkscreen



POE-an **Experienced Electronics Partner** In the Medical Industry

DICAL INDUSTRY

Why Choose POE as Your Medical Device PCB Provider?

One of our values is transparency, this is why we offer complete transparency regarding all aspects of our process which is vital for this industry and highly appreciated by our customers.POE will always provide unprecedented service and flexibility for any medical device printed circuits.

Since 1996, we have over 24 years experience from pcb fabrication to turnkey assembly. We know that early involvement with all participants will save time and money. Useing our knowledge and experience to make your medical product development process run as smooth as possible.

Medical Applications scale in variety when it comes to size and technology. Advanced, large x-ray machines, ventilator, robotic arms, and microscopic hearing devices or sensors, and applications for both the exterior and the interior of the human body.

POE offers fast and complete medical PCB manufacturing services to speed up your go-to-market schedule. High reliability is a top priority in the medical device manufacturing industry. Our clients know they can rely on us to deliver the precise, high quality results they need, in the shortest time span.

We are ISO-9001, ISO-13485 and ISO14001 certified. This means every single, double or multi-layer, flex, rigid and rigid-flex PCB board undergoes stringent inspection testing to ensure it meets your specifications and compliance requirements.cations and compliance requirements.

Medical Application







PSE

















