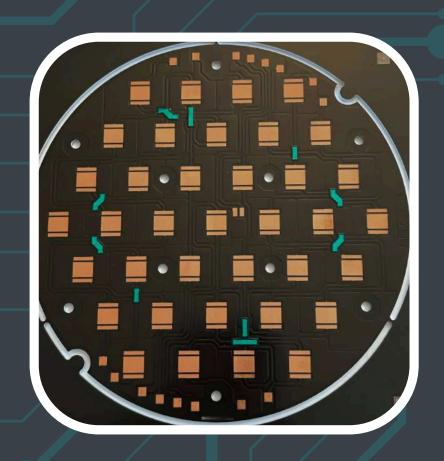


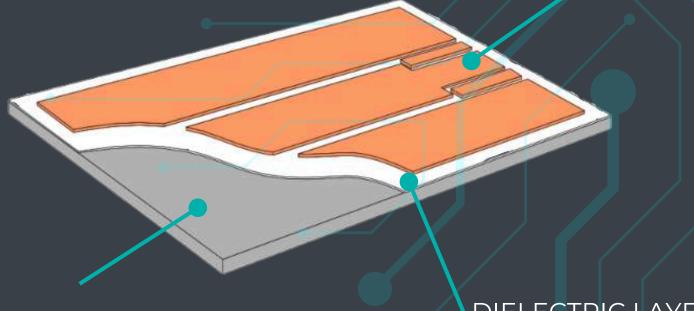
An IMS PCB presents the circuit layer bonded to an electrically insulated metal base to be used for power applications







COPPER FOIL



METAL SUBSTRATE

DIELECTRIC LAYER





Insulation/dielectric layer

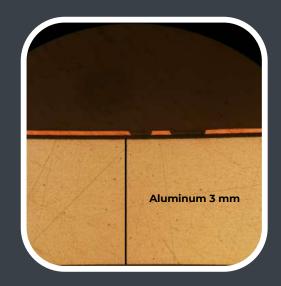
Thin dielectric layer with a high coefficient of thermal conductivity for the transfer of heat to the external environment

Metal base plate either aluminum or copper (0,5-3mm thickness) as support and heatsink element



METAL SUBSTRATES

	COPPER	ALUMINUM
THERMAL CONDUCTIVITY	391 W/m°K	150 W/m°K
СТЕ	16,9 ppm/°K	25 ppm/°K
DENSITY	8,94 g/cm3	2,7 g/cm3





DIELECTRIC SUBSTRATES

THERMAL CONDUCTIVITY

MID POWER DENSITY >2w/mK

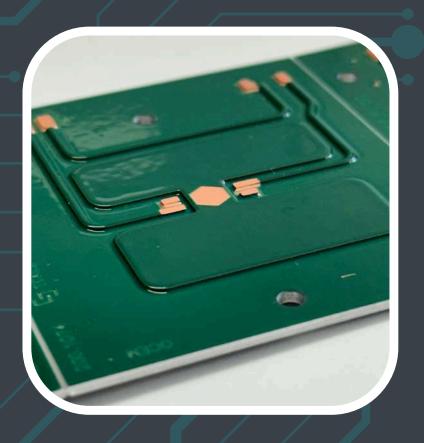
HIGH POWER DENSITY >3w/mK

ULTRA POWER DENSITY >7w/mK



BENEFITS

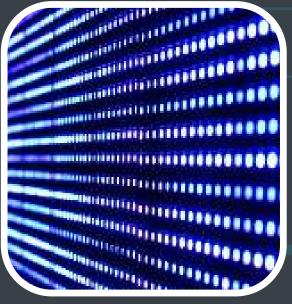
- Increased power density
- Extended life of devices
- Excellent electrical insulation
- Enables high current applications (Silga's
 - thick copper foil up to 500µm)
- Lower working temperature
- Reduced need for heatsink and related mounting operations





APPLICATIONS





- Automotive electronics (lighting, power module, fan control..)
- Lighting
- Power electronics
- Industrial electronics
- Charging stations
- Telecommunications
- Consumer electronics



