

TECNOLOGIE AD ELEVATA CONDUCIBILITÀ TERMICA PER APPLICAZIONI LIGHTING DI POTENZA

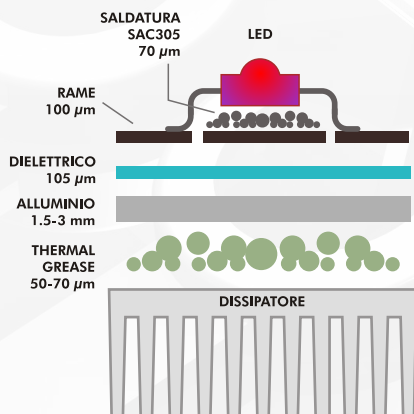
“ *Your LEDs are PRECIOUS for us: let them keep COOL and LIVE LONG!* ”

Per assicurare che **EFFICIENZA, DURATA e PERSISTENZA DI COLORE** dei led siano garantite, è necessario utilizzare materiali e tecnologie di assemblaggio capaci di trasferire il calore al dissipatore.

In base alle specifiche proprietà del materiale utilizzato come supporto, AUREL può fornire differenti soluzioni tecnologiche per l'assemblaggio dei led.

SEQUENZA DEGLI STRATI:

IMS (INSULATED METAL SUBSTRATE)

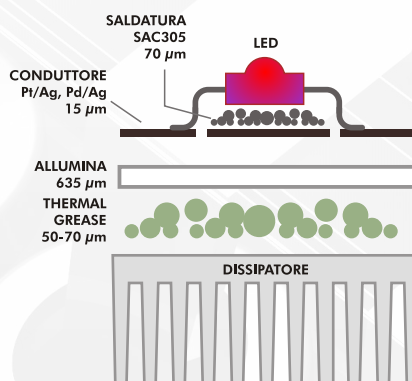


SALDATURA	K ≈ 40
RAME	K ≈ 400
ISOLANTE	K ≈ 2
ALLUMINIO	K ≈ 230
THERMAL GREASE	K ≈ 2÷4

LUNGHEZZA MAX LAVORABILE 60 cm

RELATIVO COSTO/UNITÀ: 1

THICK FILM SU ALLUMINA

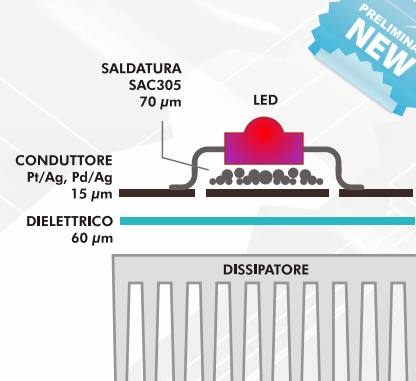


SALDATURA	K ≈ 40
CONDUTTORE (Pt/Ag, Pd/Ag)	K ≈ 150
ALLUMINA (Al ₂ O ₃)	K ≈ 25
THERMAL GREASE	K ≈ 2÷4

LUNGHEZZA MAX LAVORABILE 15 cm

RELATIVO COSTO/UNITÀ: ~ 1.3

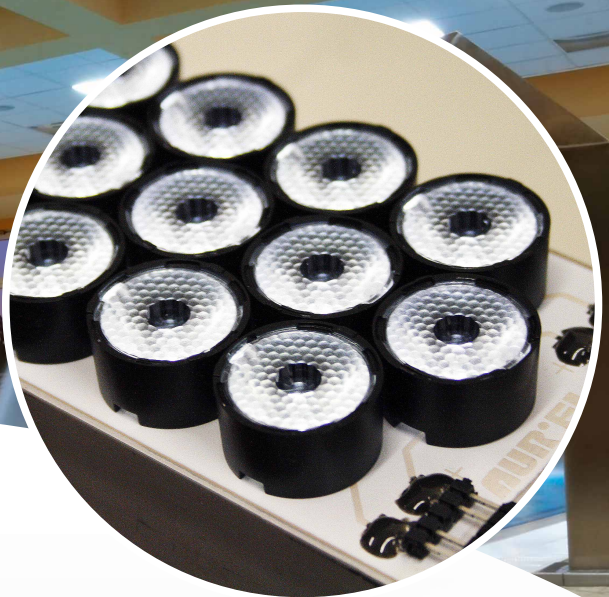
THICK FILM SU ALLUMINIO



SALDATURA	K ≈ 40
CONDUTTORE (Pt/Ag, Pd/Ag)	K ≈ 150
DIELETRICO	K ≈ 2

LUNGHEZZA MAX LAVORABILE 30 - 100 cm

RELATIVO COSTO/UNITÀ: ~ 0.7



HIGH THERMAL CONDUCTIVITY TECHNOLOGIES FOR POWER LIGHTING APPLICATIONS

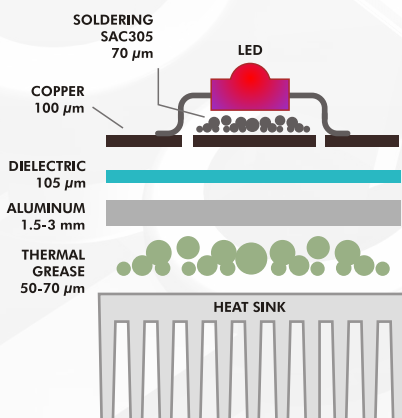
“ *Your LEDs are PRECIOUS for us: let them keep COOL and LIVE LONG!* ”

In order to ensure that **EFFICIENCY, LIFE TIME** and **COLOR PERSISTENCY** are guaranteed, is mandatory to use materials and assembly techniques capable to transfer heat to the sinker.

Based on specific characteristics of the material utilized as substrate, AUREL can provide different technological solution for led assembling.

LAYERS STACK-UP:

IMS (INSULATED METAL SUBSTRATE)

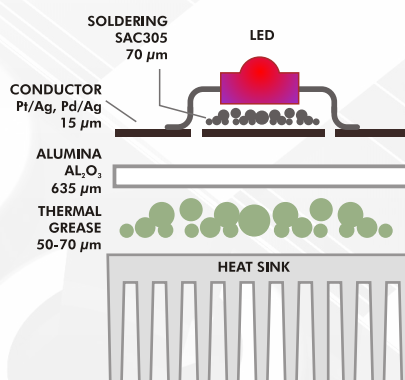


SOLDERING	$K \approx 40$
COPPER	$K \approx 400$
DIELECTRIC	$K \approx 2$
ALUMINUM	$K \approx 230$
THERMAL GREASE	$K \approx 2 \div 4$

MAXIMUM WORKABLE LENGTH 60 cm

RELATIVE COST/SQUARE UNIT: 1

THICK FILM ON ALUMINA

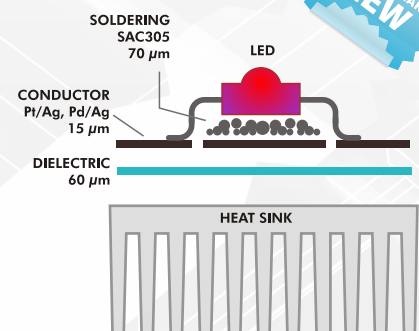


SOLDERING	$K \approx 40$
CONDUCTOR (Pt/Ag, Pd/Ag)	$K \approx 150$
ALUMINA (Al ₂ O ₃)	$K \approx 25$
THERMAL GREASE	$K \approx 2 \div 4$

MAXIMUM WORKABLE LENGTH 15 cm

RELATIVE COST/SQUARE UNIT: ~ 1.3

THICK FILM ON ALUMINUM



SOLDERING	$K \approx 40$
CONDUCTOR (Pt/Ag, Pd/Ag)	$K \approx 150$
DIELECTRIC	$K \approx 2$

MAXIMUM WORKABLE LENGTH 30 - 100 cm

RELATIVE COST/SQUARE UNIT: ~ 0.7