



PGB LAYOUT (Recommend)
(General Recommendation)

NOTE:

1. MATERIAL SPECIFICATION:
 1. HOUSING: HIGH TEMPERATURE RESISTANT PLASTIC, U194 V-0.
 2. CONTACTS: COPPER ALLOY
 3. MID PLATE: STAINLESS STEEL
 4. FRONT SHELL: STAINLESS STEEL
2. PLATING SPECIFICATION:
 - 2-1. CONTACTS:
 - Ni 50μ" MIN. UNDER PLATED OVER ALL.
 - Au PLATED ON THE FUNCTIONAL AREA OF CONTACT.
 - (GOLD PLATING THICKNESS FOLLOW THE P/N)
 - PLATING SPECIFICATIONS OF THE SOLDER AREA FOLLOW THE P/N
 - 2-2. FRONT SHELL:
 - SEE TABLE1.
 - 2-3. SHIELD PLATE & EMI PLATE:
 - CLEAR ONLY
3. MECHANICAL PERFORMANCE:
 - 3-1. INSERTION FORCE: 0.5~2.0kgf.
 - 3-2. REMOVAL FORCE: 0.8kgf~2.0kgf.
 - 3-3. DURABILITY: 10000 CYCLES.
4. ELECTRICAL PERFORMANCE:
 - 4-1. CURRENT RATING: 3.0A VOLTAGE RATING: 5.0V
 - 4-2. IFCR & GND PINS AND OTHER PINS: 40mΩ/PIN MAX. SHIELD: 50mΩ/MAX. IFCR MAX. CHANGE OF ALL PINS: 10mΩ.
 - 4-3. INSULATION RESISTANCE: 100MΩ MIN
 - 4-4. DIELECTRIC WITHSTAND VOLTAGE: AC 100V FOR 1 MINUTE.
5. ENVIRONMENTAL PERFORMANCE:
 5. OPERATING TEMPERATURE: -25°C~+85°C.
 6. AIR REFLOW:
 - THE PEAK TEMPERATURE ON THE BOARD SHALL BE MAINTAINED FOR 10 SECONDS AT 260°C.

USB TYPE-C PIN ASSIGNMENTS

PIN NUMBER	SIGNAL NAME	PIN NUMBER	SIGNAL NAME
A1	GND	B12	GND
A4	VBUS	B9	VBUS
A5	CC1	B8	SRL2
A6	Dp1	B7	Dn2
A7	Dn1	B6	Dp2
A8	SRL1	B5	CC2
A9	VBUS	B4	VBUS
A12	GND	B1	GND

APPROVALS		DATE	TITLE:
DRAWN	G.M.Chen	2024/6/10	USB CONNECTOR
CHECKED	M.K.LI	2024/6/10	
APPROVALS	B.L.Zheng	2024/6/10	PART NO. USB-TYPE-C-018

DEALON 德之隆
ELECTRONICS CO.,LTD

ECN NO.	REV.	DATE.	DESCRIPTION.	CHANGE.	CHECK.	APPRO.	TOLERANCES ARE	UNIT:	SCALE:	SHEET	PROJ.
	A		NEW				30~0.15 ±0.30 ±0.20 ±0.15	mm	1:1	1 OF 1	