WATERPROOF RATING
IP-X7

ELECTRICAL:
CURRENT RATING:
5A (VBUS Pin 1.5A/Pin) 0.25A/Pin (Other Ping)
CONTACT RESISTANCE:
< 40 milliohm Max.
INSULATION RESISTANCE:
> 100 Mgeaohm Min.
DIELECTRIC WITHSTANDING VOLTAGE:
100 VAC for 1 Minute
OPERATING TEMPERATURE: - 40° C ~ 80° C

INSULATOR: High Temperature Plastic, UL94V-0
CONTACTS: Copper Alloy
CONTACT PLATING:
Gold Plating over 50u" Nickel on Contact Area,
100u" Tin Plating over 50u" Nickel on Solder Area
SHELL: Stainless Steel with 50u" Nickel Plating

Mechanical:
INSERTION FORCE: 5 ~ 20N Max.
WITHDRAWAL FORCE: 8 ~ 20N Kg
DURABILITY: 10,000 Cycles

HOW TO ORDER:
- 0 4 1 -5 4 0 X X
# OF POSITIONS 04 - 24 Position Straddle PCB
CONTACT AREA PLATING RoHS COMPLIANT
CONTACT AREA PLATING
0 - 4u" Au
1 - 7u" Au
2 - 10u" Au
3 - 15u" Au
4 - 30u" Au
PACKAGING
0 - Tray
2 - Tape & Reel

Rev
0 Issued
A Revised

SET: SMP TECHNOLOGY, INC.
USB 3.1 Type C, Female, 24 Position, Mid Mount, Waterproof, IP-X7

SHELL Color: Black
- Female Right Angle Waterproof

BODY STYLE
4 - Female Right Angle Waterproof

# OF POSITIONS
04 - 24 Position Straddle PCB

MOUNTING STYLE
15 - Right Angle, Combo
SMT & SMT Mid Mount, 9.74mm(W) x 10.65mm (L)
2.00mm Offset

CONTACT AREA PLATING
RoHS COMPLIANT

PACKAGING
0 - Tray
2 - Tape & Reel

Isometric View

Recommended PCB Layout

Laser Welding Point

SHELL GND
GND First
First
First
First
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
GND
VBUS
VBUS
SBU1
Dn1
Dp1
CC1
SSTXp1
SSTXn1
SSRXn2
SSTXp2
GND
GND
SHELL GND
SHELL GND

Signal Name
Pin
A1
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
SHANNON
First
Second
First
First
Second
Second
Second
Second
First
First
First
First

Mating Sequence
First
First
First
First
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second
Second

Pin
Signal Name
Mating Sequence
Pin
Signal Name
Mating Sequence
A1
GND
First
B12
GND
First
A3
SSTXp1
Second
B11
SSTXp1
Second
A4
SSTXn1
Second
B10
SSTXn1
Second
A5
VBUS
First
B9
VBUS
First
A6
CC1
Second
B8
SBU2
Second
A7
Dp1
Second
B7
Dn2
Second
A8
Dn1
Second
B6
Dp2
Second
A9
SBU1
Second
B5
CC2
Second
A10
VBUS
First
B4
VBUS
First
A11
SSTRx2
Second
B3
SSTXn2
Second
A12
SSTXp2
Second
B2
SSTXp2
Second
A13
GND
First
B1
GND
First
SHANNON
GND
SHELL
SHELL
GND

TOL. DEC. .X +/- 0.30 .XX +/- 0.20 .XXX +/- 0.10
UNIT: mm
SERIES: U045-0415-40XX-Z
Pg: 1 of 2
Panel Assembly - Left to Right

Gasket will Compress to 0.30mm

Waterproof Gasket

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