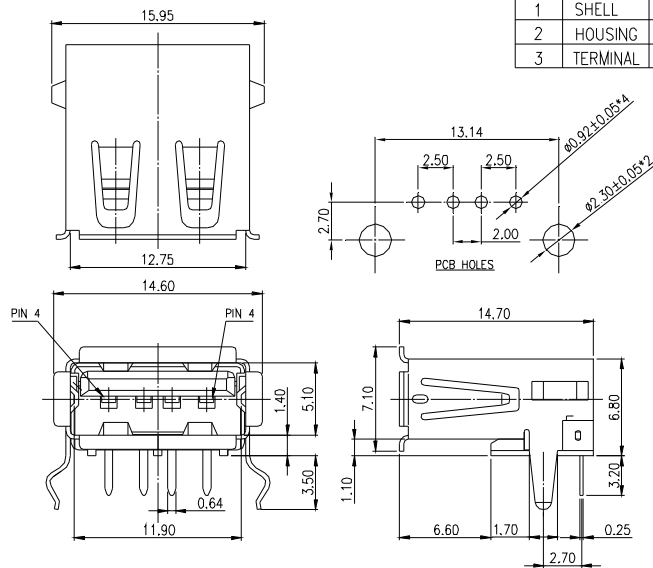


**USB
CONNECTOR**

USB X01 SERIES RIGHT ANGLE TYPE- Pa

ITEM	PART NAME	DESCRIPTION	QTY
1	SHELL	SPCC PLATING THE 90-120" NICKEL 80-120 /"THICKNESS 0.3MM	1
2	HOUSING	PBT 94V-0	1
3	TERMINAL	BRASS PLATING HALP-GOLD/TIN(GOLD FLASH) THICKNESS 0.25MM	4



ELECTRICATION:

1. CONTACT RESISTANCE: 30 MΩ MAXIMUM WHEN MEASURED AT 20MV MAXIMUM OPEN CIRCUIT AT 100MA.
2. DIELECTRIC WITHSTANDING VOLTAGE: THE DIELECTRIC MUST WITHSTAND 500V AC MAX WITH 1 MINUTE.
3. INSULATION RESISTANCE: 1000 MΩ MINIMUM.
4. CURRENT RATING: 1.5A AT 250V AV MINIMUM WHEN MEASURED AT AN AMBIENT TEMPERATURE OF 25°C.

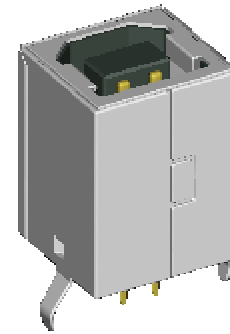
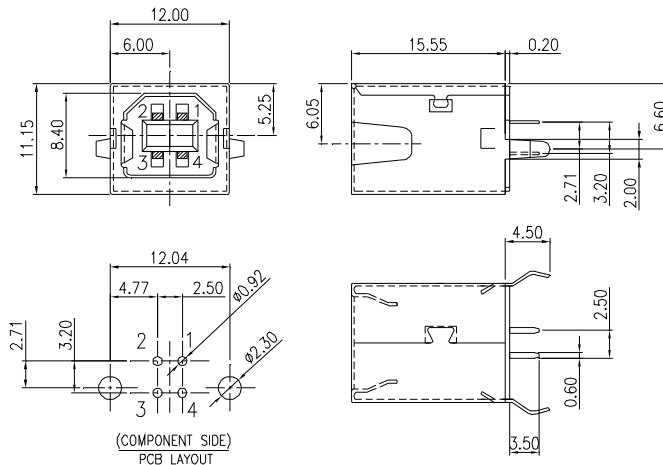


PART NO.	PALSTIC COLOR
USB001-Pa04_G_	WHITE
USB101-Pa04_G_	BLACK

USB X01 - Pa 04 X GX

- USB SERIES**
- SERIES NO.**
001: COLOR OF PLASTIC, WHITE
101: COLOR OF PLASTIC, BLACK
- PCB TYPE**
Pa: RIGHT ANGLE TYPE
- NO. OF CONTACT**
04
- SHELL PLATING**
N: NICKEL PLATING
T: TIN PLATING
- PLATING**
Gft: GOLD FLASH ON CONTACT,
TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT,
TIN PLATED ON SOLDER TAIL

USB X02 SERIES STRAIGHT TYPE- P



NO.	NAME	MATERIAL	FINISH	REMARK	Q'TY
1	HOUSING	P.B.T. G.F.	WHITE OR BLACK		1
2	PIN TERM.	PHOS. BRONZE T: 0.25	GOLD/TIN PLATED	Nt1~1.5u" ; TIN:3u" GOLD:1~3u"	4
3	SHELL	BRASS T: 0.3	NICKEL PLATED	Nt:2~3u" ; T:3~5u"	1
4	BOTTOM COVER	P.B.T. G.F.	WHITE OR BLACK		1

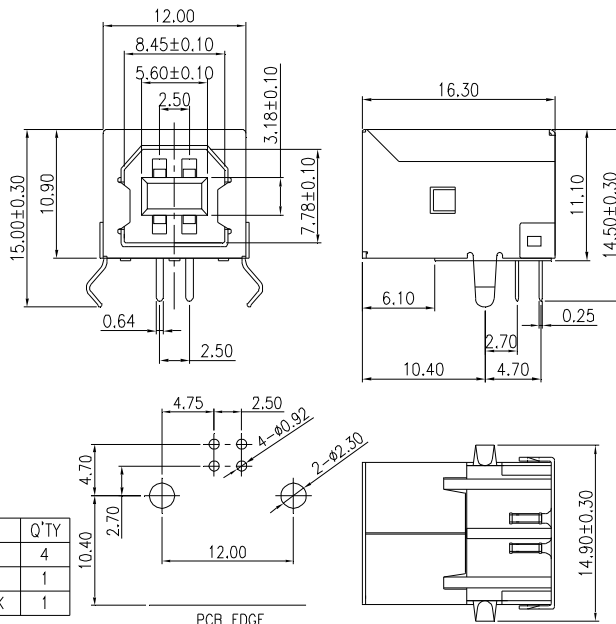
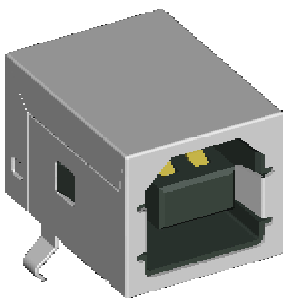
PART NO.	PALSTIC COLOR
USB002-P04NG_	WHITE
USB102-P04NG_	BLACK

USB X02 - P 04 N GX

- USB SERIES**
- SERIES NO.**
002: COLOR OF PLASTIC, WHITE
102: COLOR OF PLASTIC, BLACK
- PCB TYPE**
P: STRAIGHT TYPE
- NO. OF CONTACT**
04
- SHELL PLATING**
N: NICKEL PLATING
- PLATING**
Gft: GOLD FLASH ON CONTACT,
TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT,
TIN PLATED ON SOLDER TAIL

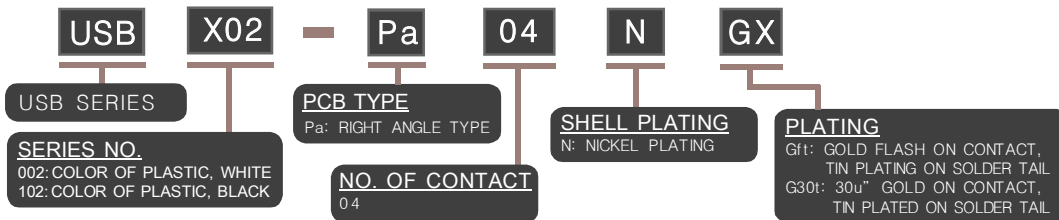
NOTE : SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

USB X02 SERIES RIGHT ANGLE TYPE- Pa

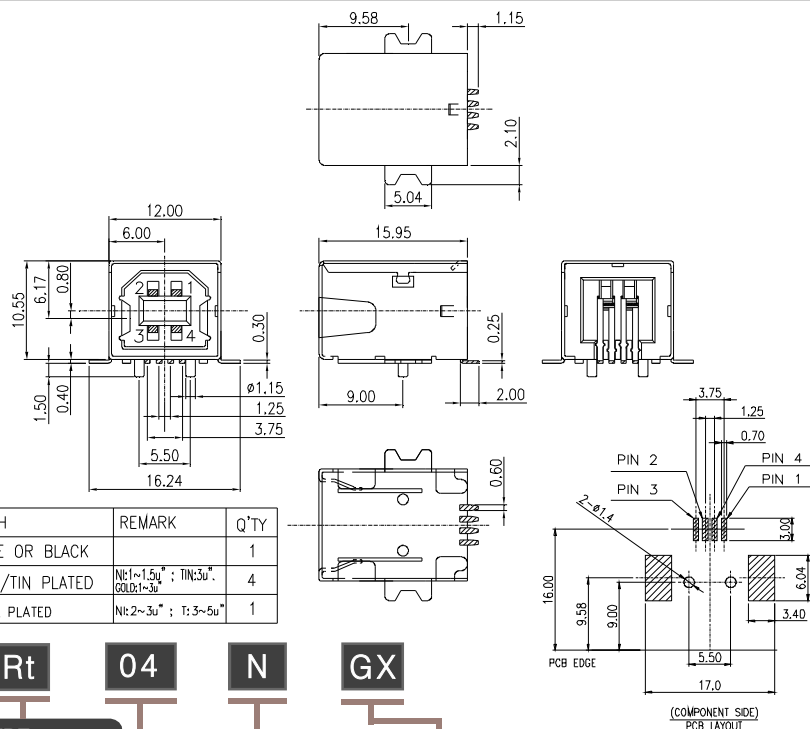
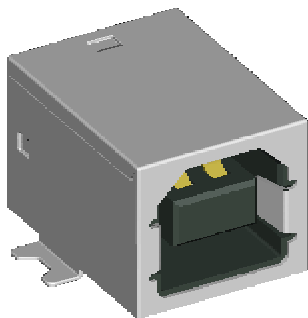


PART NO.	PALSTIC COLOR
USB002-Pa04NG_	WHITE
USB102-Pa04NG_	BLACK

ITEM	DESC.	MATERIAL	FINISH	REMARKS	Q'TY
1	TERMINAL	COPPER ALLOY	HALF GOLD/TIN PLATED	t=0.25	4
2	SHELL	SPCC	NIKEL PLATED	t=0.30	1
3	HOUSING	PBT	WHITE OR BLACK		1

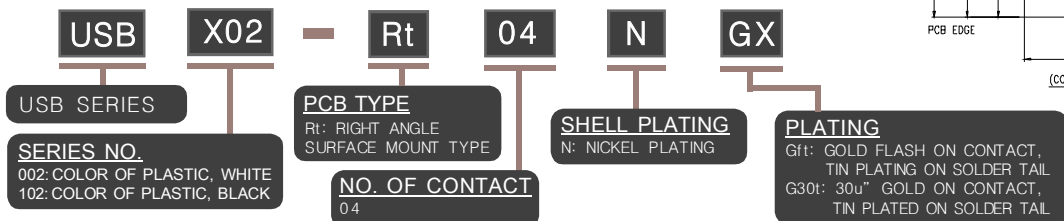


USB X02 SERIES RIGHT ANGLE & SURFACE MOUNT TYPE- Rt



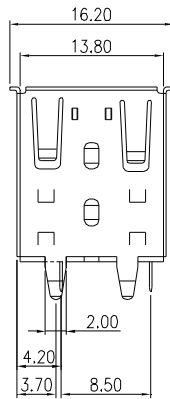
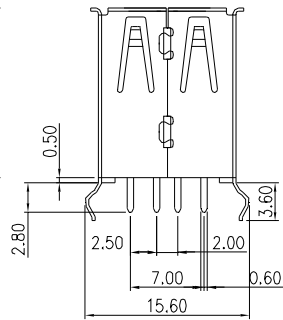
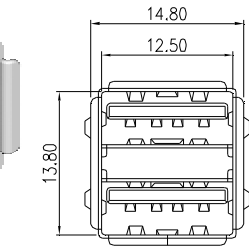
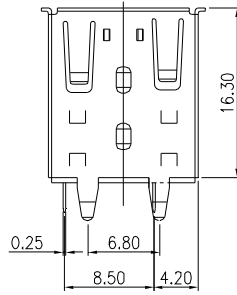
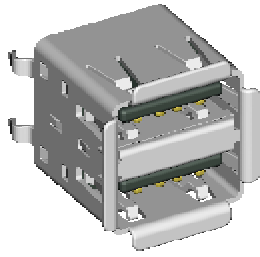
PART NO.	PALSTIC COLOR
USB002-Rt04NG_	WHITE
USB102-Rt04NG_	BLACK

NO.	NAME	MATERIAL	FINISH	REMARK	Q'TY
1	HOUSING	NYLON PA9T G.F.	WHITE OR BLACK		1
2	PIN TERM.	PHOS. BRONZE T: 0.25	GOLD/TIN PLATED	Nt:1~1.5u"; Tt:3u" G0L:1~3u"	4
3	SHELL	BRASS T: 0.3	NICKEL PLATED	Nt:2~3u"; T:3~5u"	1



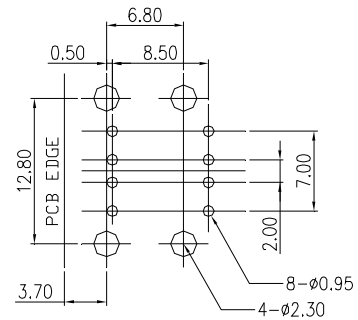
NOTE : SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

USB X03 SERIES STRAIGHT TYPE- P



NO.	NAME	MATERIAL	FINISH	Q'TY	REMARK
1	HOUSING	P.B.T.	WHITE OR BLACK	1	
2	PIN TERM.	PHOS. BRONZE	GOLD-TIN PLATED	8	Ni:1~5u" ; TIN:3u" GOLD:30u"
3	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
4	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
5	SPEACER	P.C.	NATURAL	2	

PART NO.	PALSTIC COLOR
USB003-P08NG_	WHITE
USB103-P08NG_	BLACK



PCB LAYOUT (BOTTOM VIEW)

USB

X03

P

08

N

GX

USB SERIES

SERIES NO.

003: COLOR OF PLASTIC, WHITE
103: COLOR OF PLASTIC, BLACK

PCB TYPE

P: STRAIGHT TYPE

NO. OF CONTACT

08

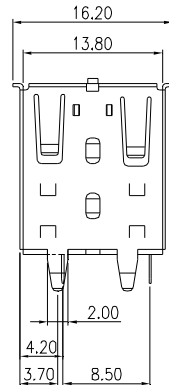
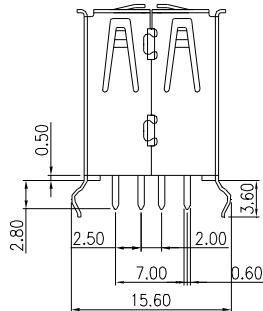
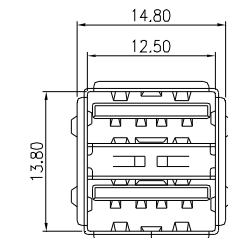
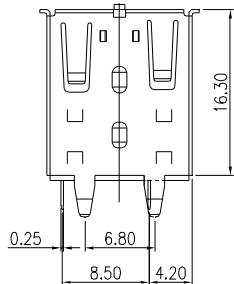
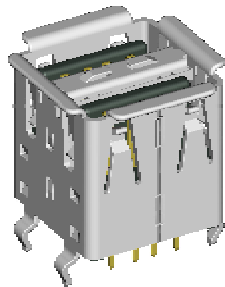
SHELL PLATING

N: NICKEL PLATING

PLATING

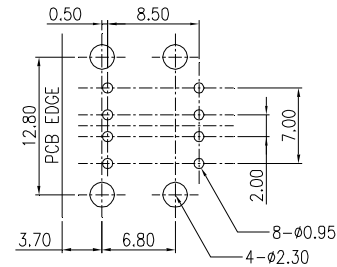
Gf: GOLD FLASH ON CONTACT,
TIN PLATING ON SOLDER TAIL
G30: 30u" GOLD ON CONTACT,
TIN PLATED ON SOLDER TAIL

USB X03 SERIES STRAIGHT TYPE- P WITH SPRINGY GND



NO.	NAME	MATERIAL	FINISH	Q'TY	REMARK
1	HOUSING	P.B.T.	WHITE OR BLACK	1	
2	PIN TERM.	PHOS. BRONZE	GOLD-TIN PLATED	8	Ni:1~5u" ; TIN:3u" GOLD:30u"
3	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
4	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
5	SPEACER	P.C.	NATURAL	2	

PART NO.	PALSTIC COLOR
USB003-P08NG_-S	WHITE
USB103-P08NG_-S	BLACK



PCB LAYOUT (BOTTOM VIEW)

USB

X03

P

08

N

GX

S

USB SERIES

SERIES NO.

003: COLOR OF PLASTIC, WHITE
103: COLOR OF PLASTIC, BLACK

PCB TYPE

P: STRAIGHT TYPE

NO. OF CONTACT

08

SHELL PLATING

N: NICKEL PLATING

PLATING

Gf: GOLD FLASH ON CONTACT,
TIN PLATING ON SOLDER TAIL
G30: 30u" GOLD ON CONTACT,
TIN PLATED ON SOLDER TAIL

S: WITH SPRINGY GND

NOTE : SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

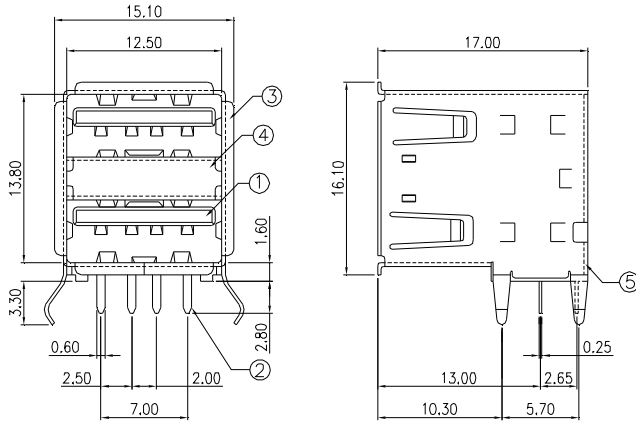
www.mmtmachrone.com

USA TEL : 1-510-979-2188
FAX : 1-510-979-2189

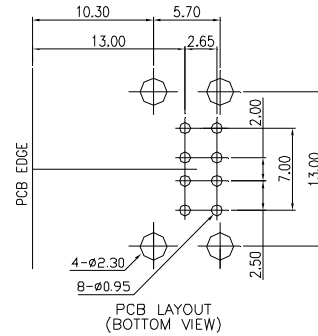
TAIWAN TEL : 886-2-2755-3193
FAX : 886-2-2784-5109

SINGAPORE TEL : 65-6274-0566
FAX : 65-6274-7891

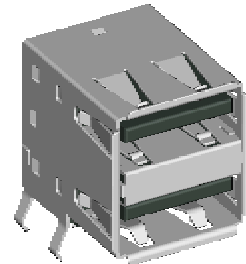
USB X03 SERIES RIGHT ANGLE TYPE- Pa



PART NO.	PALSTIC COLOR
USB003-Pa08NG	WHITE
USB103-Pa08NG	BLACK



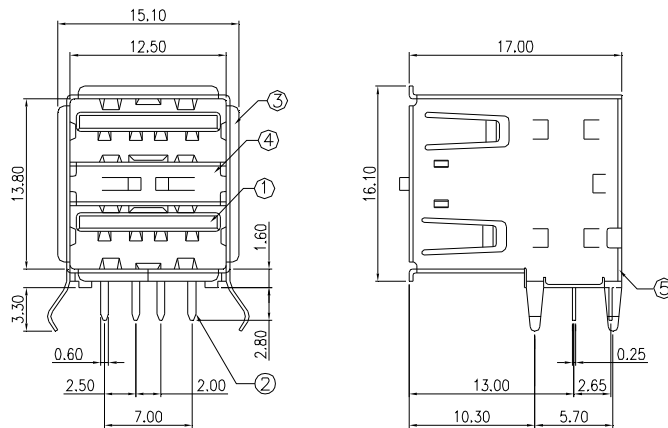
NO.	NAME	MATERIAL	FINISH	Q'TY	REMARK
1	HOUSING	P.B.T.	WHITE OR BLACK	1	
2	PIN TERM.	PHOS. BRONZE	GOLD-TIN PLATED	8	Ni:1~5u" ; TIN:3u" GOLD:30u"
3	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
4	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
5	SHELL	P.C.	NATURAL	1	



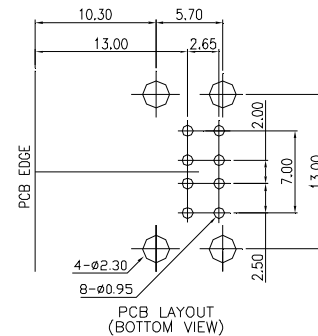
USB X03 - Pa 08 N GX

- USB SERIES**
- SERIES NO.**
003: COLOR OF PLASTIC, WHITE
103: COLOR OF PLASTIC, BLACK
- PCB TYPE**
Pa: RIGHT ANGLE TYPE
- NO. OF CONTACT**
08
- SHELL PLATING**
N: NICKEL PLATING
- PLATING**
Gf: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

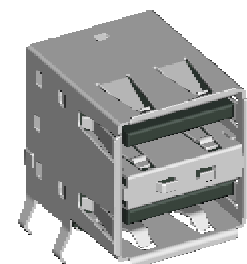
USB X03 SERIES RIGHT ANGLE TYPE- Pa WITH SPRINGY GND



PART NO.	PALSTIC COLOR
USB003-Pa08NG-S	WHITE
USB103-Pa08NG-S	BLACK



NO.	NAME	MATERIAL	FINISH	Q'TY	REMARK
1	HOUSING	P.B.T.	WHITE OR BLACK	1	
2	PIN TERM.	PHOS. BRONZE	GOLD-TIN PLATED	8	Ni:1~5u" ; TIN:3u" GOLD:30u"
3	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
4	SHELL	BRASS, 0.3mm	NICKEL PLATED	1	Ni:2~3u" ; TIN:3~5u"
5	SHELL	P.C.	NATURAL	1	

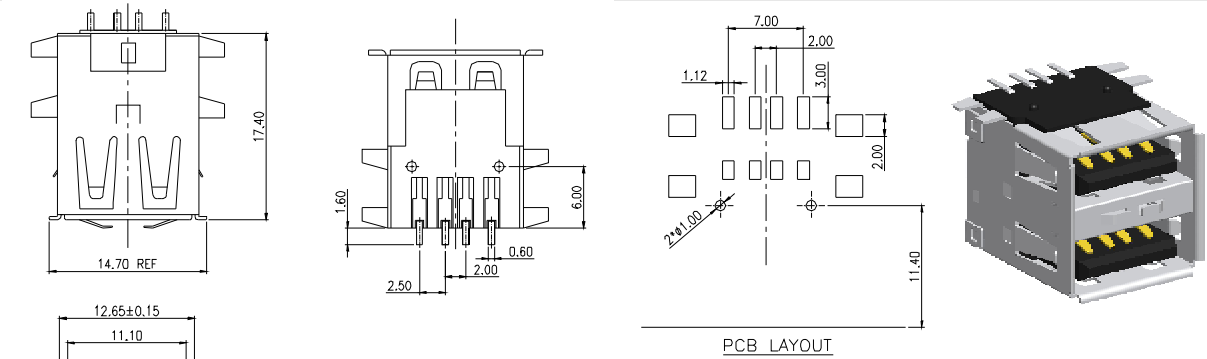


USB X03 - Pa 08 N GX - S

- USB SERIES**
- SERIES NO.**
003: COLOR OF PLASTIC, WHITE
103: COLOR OF PLASTIC, BLACK
- PCB TYPE**
Pa: RIGHT ANGLE TYPE
- NO. OF CONTACT**
08
- SHELL PLATING**
N: NICKEL PLATING
- S: WITH SPRINGY GND**
- PLATING**
Gf: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

NOTE : SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

USB X03 SERIES RIGHT ANGLE & SURFACE MOUNT TYPE- Rt



MATERIAL:
 CONTACT: PHOSPHOR BRONZE
 INSULATOR: PBT, UL 94V-0 RATED
 FRONT SHELL: BRASS
 BACK SHELL: SPCC
 LATCH: BRASS

USB X03 - Rt 08 N GX

USB SERIES
 SERIES NO.
 003: COLOR OF PLASTIC, WHITE
 103: COLOR OF PLASTIC, BLACK

PCB TYPE
 Rt: RIGHT ANGLE & SURFACE TYPE

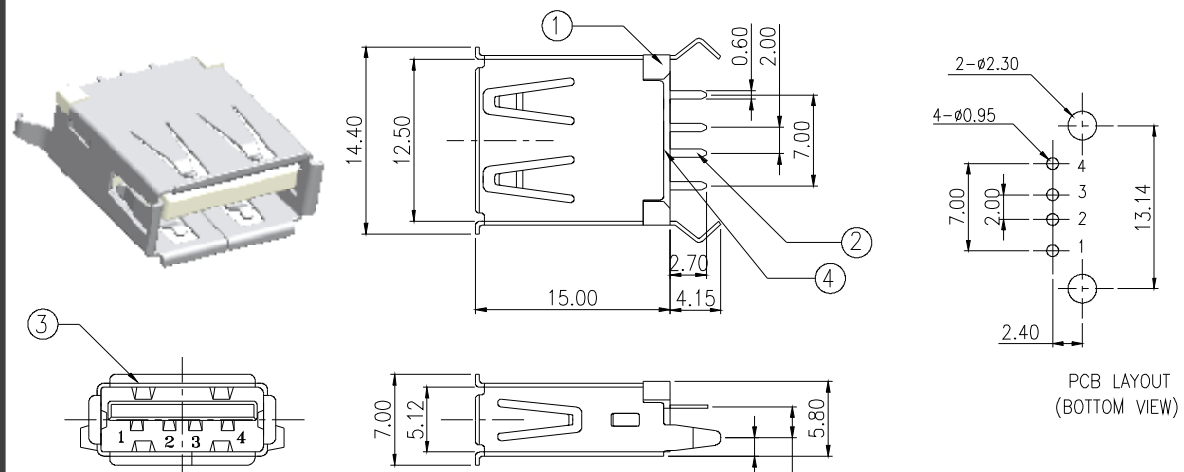
NO. OF CONTACT
 08

SHELL PLATING
 N: NICKEL PLATING

PLATING
 Gft: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
 G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

PART NO.	PALSTIC COLOR
USB003-Rt08NG_	WHITE
USB103-Rt08NG_	BLACK

USB X04 SERIES STRAIGHT TYPE- P



USB X04 - P 04 N GX

USB SERIES
 SERIES NO.
 004: COLOR OF PLASTIC, WHITE
 104: COLOR OF PLASTIC, BLACK

PCB TYPE
 P: STRAIGHT TYPE

NO. OF CONTACT
 04

SHELL PLATING
 N: NICKEL PLATING

PLATING
 Gft: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
 G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

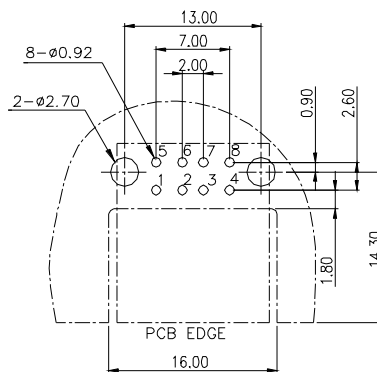
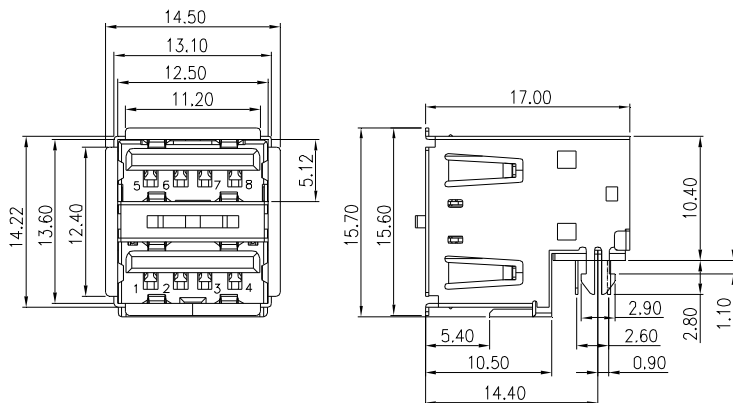
PART NO.	PALSTIC COLOR
USB004-P08NG_	WHITE
USB104-P08NG_	BLACK

NOTE : SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

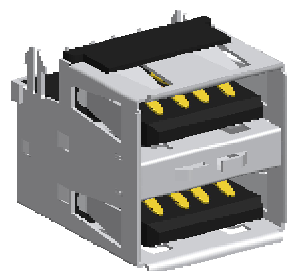
USB X04 SERIES RIGHT ANGLE TYPE- Pa WITH SPRINGY GND

MATERIAL:

CONTACT: BRASS T=0.25mm.
 INSULATOR: PBT, GLASS FIBRE
 UL 94V-0.
 FORNT SHELL: IRON T=0.30mm



PCB LAYOUT



USB X04 - Pa 08 N GX

USB SERIES

PCB TYPE

Pa: RIGHT ANGLE TYPE

SHELL PLATING

N: NICKEL PLATING

SERIES NO.

004: COLOR OF PLASTIC, WHITE
 104: COLOR OF PLASTIC, BLACK

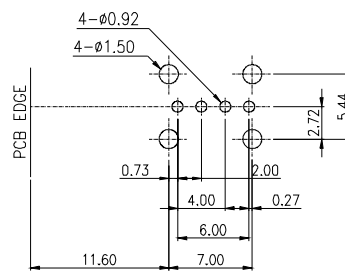
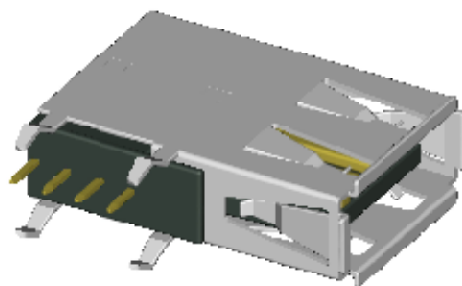
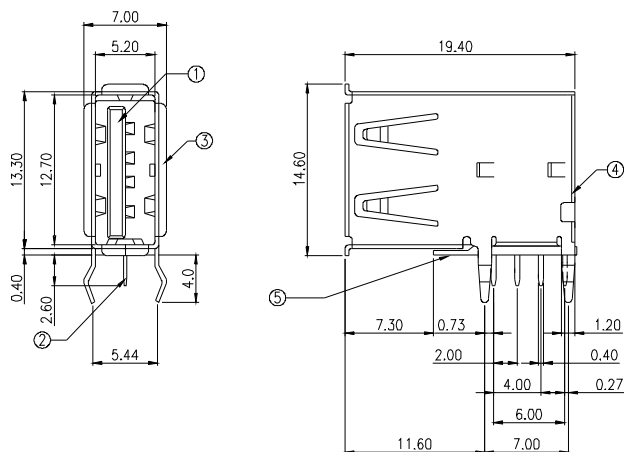
NO. OF CONTACT

08

PLATING

Gt: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
 G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

USB X05 SERIES RIGHT ANGLE TYPE- Pa



PCB LAYOUT (BOTTOM VIEW)

NO.	NAME	MATERIAL	FINISH	Q'TY	REMARK
1	HOUSING	P.B.T. G.F.	WHITE OR BLACK	1	
2	CONTACT	PHOS. BRONZE T:0.25	GOLD-TIN PLATED	4	Ni:1~5u" ; TIN:3u" GOLD:1~30u"
3	SHELL	BRASS T:0.3	NICKEL PLATED	1	Ni:2~3u"
4	SHELL	BRASS T:0.3	NICKEL PLATED	1	Ni:2~3u"
5	BOTTOM COVER	P.B.T. G.F.	WHITE OR BLACK	1	

USB X05 - Pa 04 N GX

USB SERIES

PCB TYPE

Pa: RIGHT ANGLE TYPE

SHELL PLATING

N: NICKEL PLATING

SERIES NO.

005: COLOR OF PLASTIC, WHITE
 105: COLOR OF PLASTIC, BLACK

NO. OF CONTACT

04

PLATING

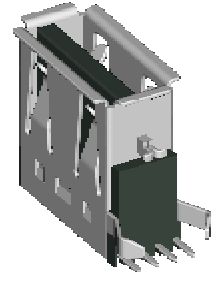
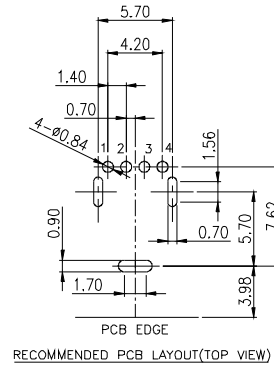
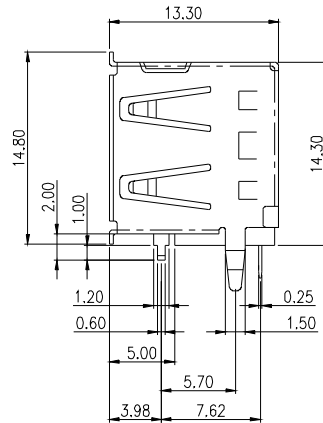
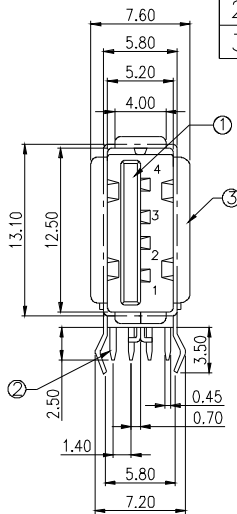
Gt: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
 G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

PART NO.	PALSTIC COLOR
USB005-Pa04NG	WHITE
USB105-Pa04NG	BLACK

NOTE : SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

USB X07 SERIES RIGHT ANGLE TYPE- Pa

NO.	NAME	MATERIAL	FINISH	REMARK	Q'TY
1	HOUSING	NYLON PA9T G.F.			1
2	PIN TERM.	PBS T:0.25	GOLD/TIN PLATED	Ni:1~1.5u", TIN:3u", GOLD:1~3u"	4
3	SHELL	BRASS T:0.3	TIN/NICKEL PLATED	Ni:2~3u"	1



USB X07 - Pa 04 N GX

USB SERIES

PCB TYPE

Pa: RIGHT ANGLE TYPE

SHELL PLATING

N: NICKEL PLATING

SERIES NO.

007: COLOR OF PLASTIC, WHITE
107: COLOR OF PLASTIC, BLACK

NO. OF CONTACT

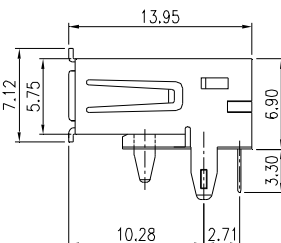
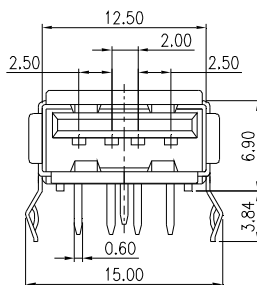
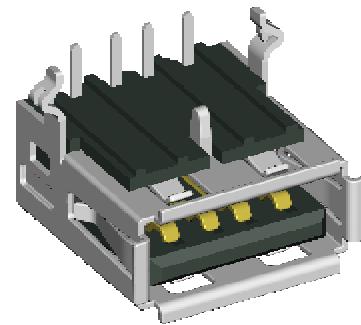
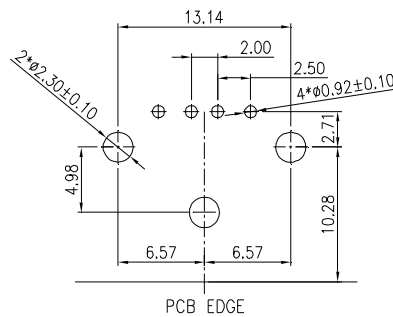
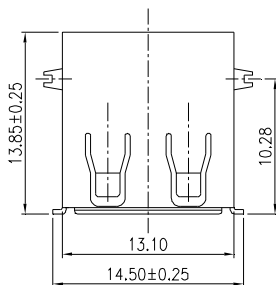
04

PLATING

Gf: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

PART NO.	PALSTIC COLOR
USB007-Pa04NG	WHITE
USB107-Pa04NG	BLACK

USB X11 SERIES RIGHT ANGLE TYPE- Pa



MATERIAL:
CONTACT: BRASS
INSULATOR: PBT, UL 94V-0 RATED.
SHELL: BRASS.

USB X11 - Pa 04 N GX

USB SERIES

PCB TYPE

Pa: RIGHT ANGLE TYPE

SHELL PLATING

N: NICKEL PLATING

SERIES NO.

011: COLOR OF PLASTIC, WHITE
111: COLOR OF PLASTIC, BLACK

NO. OF CONTACT

04

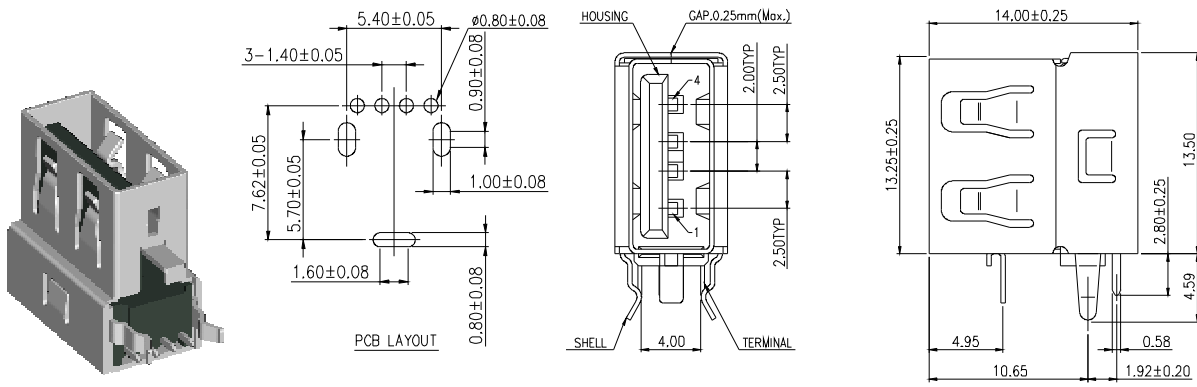
PLATING

Gf: GOLD FLASH ON CONTACT,
TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT,
TIN PLATED ON SOLDER TAIL

PART NO.	PLASTIC COLOR
USB011-Pa04NG_	WHITE
USB111-Pa04NG_	BLACK

NOTE: SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

USB X13 SERIES RIGHT ANGLE TYPE- Pa



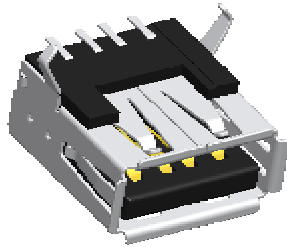
NO.	DESC.	MATERIAL	FINISH	REMARKS
1	TERMINAL	PHOSPGOR ALLOY	GOLD FLASH	t=0.25
2	SHELL	BRASS	NICKEL PLATED	t=0.30
3	HOUSING	PBT+G.F.,UL94V-0		

PART NO.	PLASTIC COLOR
USB013-Pa04NG	WHITE
USB113-Pa04NG	BLACK

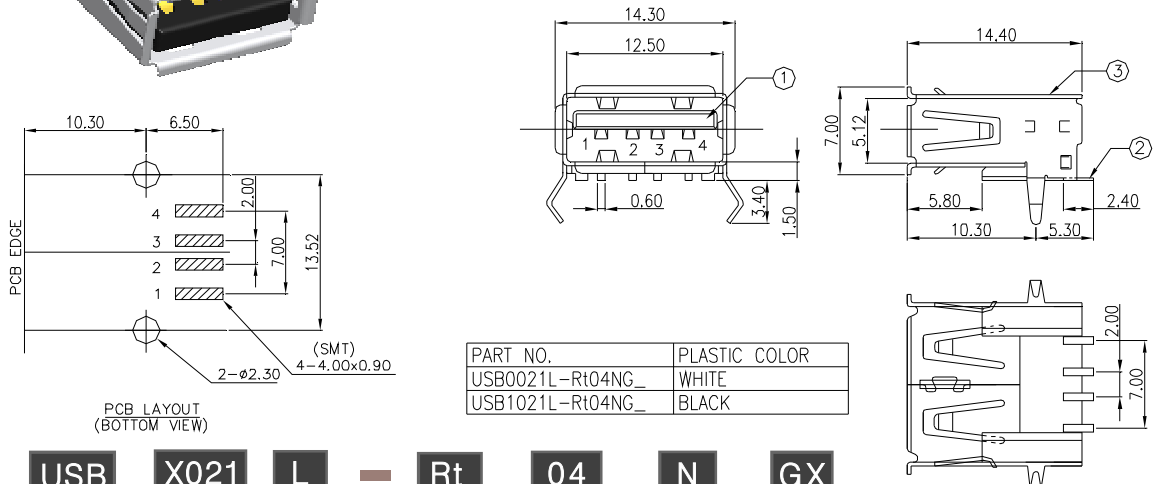
USB X13 - Pa 04 N GX

- USB SERIES**
- SERIES NO.**
013: COLOR OF PLASTIC, WHITE
113: COLOR OF PLASTIC, BLACK
- PCB TYPE**
Pa: RIGHT ANGLE TYPE
- NO. OF CONTACT**
04
- SHELL PLATING**
N: NICKEL PLATING
- PLATING**
Gf: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

USB X021L SERIES RIGHT ANGLE & SURFACE MOUNT TYPE- Rt



NO.	NAME	MATERIAL	FINISH	REMARK	Q'TY
1	HOUSING	NYLON PA9T G.F.			1
2	PIN TERM.	PHOS. BRONZE T: 0.25	GOLD-TIN PLATED	Ni:1~1.5u; TIN:3u. GOLD:1~3u	4
3	SHELL	BRASS T: 0.3	NICKEL PLATED	Ni: 2~3u"	1



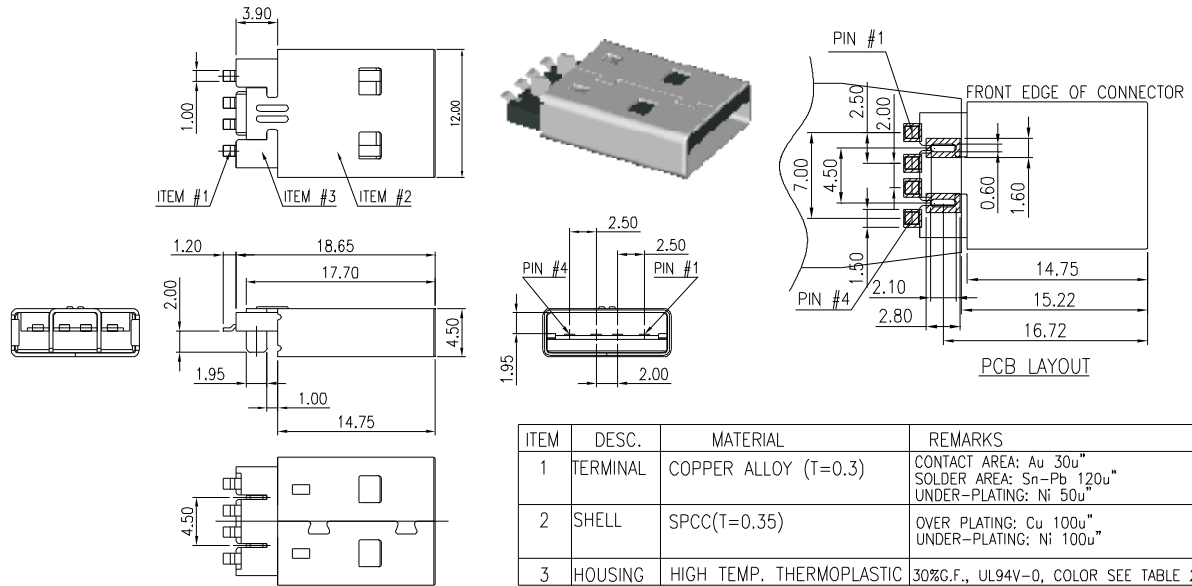
PART NO.	PLASTIC COLOR
USB0021L-Rt04NG	WHITE
USB1021L-Rt04NG	BLACK

USB X021 L - Rt 04 N GX

- USB SERIES**
- SERIES NO.**
0021: COLOR OF PLASTIC, WHITE
1021: COLOR OF PLASTIC, BLACK
- LEAD FREE**
- PCB TYPE**
Rt: RIGHT ANGLE & SURFACE MOUNT
- NO. OF CONTACT**
04
- SHELL PLATING**
N: NICKEL PLATING
- PLATING**
Gf: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL
G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL

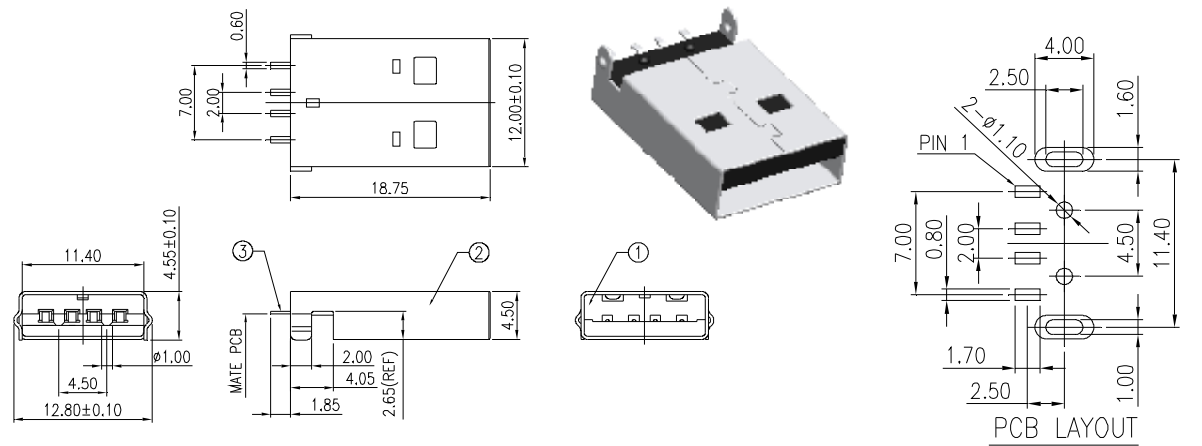
NOTE : SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE

USB X31 SERIES RIGHT ANGLE & SURFACE MOUNT TYPE-Rt



USB	X31	Rt	04	N	GX	PART NO.	PALSTIC COLOR
USB SERIES						USB031-Rt04NG_	BEIGE
PCB TYPE Rt: RIGHT ANGLE & SURFACE MOUNT						USB131-Rt04NG_	BLACK
SHELL PLATING N: NICKEL PLATING							
PLATING Gft: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL							
SERIES NO. 031: COLOR OF PLASTIC, WHITE 131: COLOR OF PLASTIC, BLACK							
NO. OF CONTACT 04							

USB X32 SERIES RIGHT ANGLE & SURFACE MOUNT TYPE-Rt



USB	X32	Rt	04	N	GX	PART NO.	PALSTIC COLOR
USB SERIES						USB032-Rt04NG_	BEIGE
PCB TYPE Rt: RIGHT ANGLE & SURFACE MOUNT						USB132-Rt04NG_	BLACK
SHELL PLATING N: NICKEL PLATING							
PLATING Gft: GOLD FLASH ON CONTACT, TIN PLATING ON SOLDER TAIL G30t: 30u" GOLD ON CONTACT, TIN PLATED ON SOLDER TAIL							
SERIES NO. 032: COLOR OF PLASTIC, WHITE 132: COLOR OF PLASTIC, BLACK							
NO. OF CONTACT 04							

NOTE: SOME SIZES, STYLES AND OPTION ARE NON-STANDARD, NON-CANCELLABLE, NON-RETURNABLE