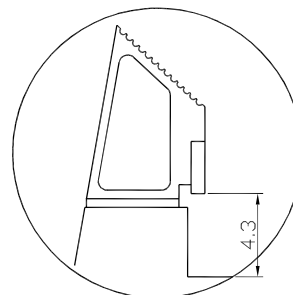
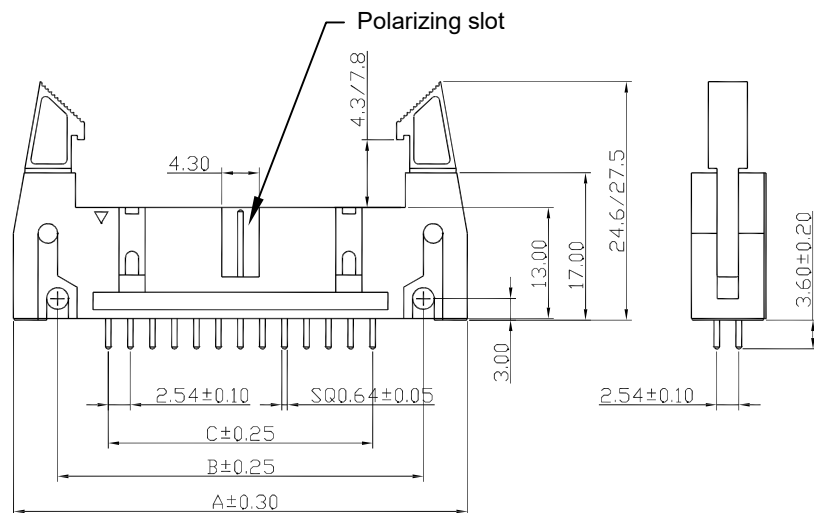
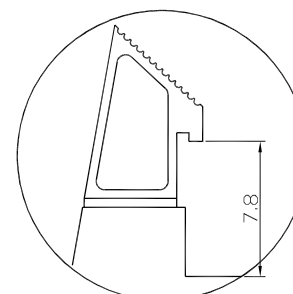


PCB LAYOUT



SHORT LATCH

Used for IDC connector without clamp



LONG LATCH

Used for IDC connector with clamp, or crimping socket

Specifications:

Current Rating: 3.0A AC/DC
Voltage rating: 250V AC/DC
Temperature range: -25°C to +85°C
Contact resistance: 20mΩ max.
Insulation resistance: 1000MΩ min.
Withstand voltage: 1500V AC/minute

Material:

Housing: PBT, UL94V-0, black/gray
PIN: brass

Mates with:

2541W (wire connector, crimp type, female, single polarizing guide)
2541WD (wire connector, crimp type, female, dual polarizing guide)
2541WC (cable connector, IDT type, female, single polarizing guide)
2541WCR (cable connector, IDT type, female, single polarizing guide, with strain relieve)

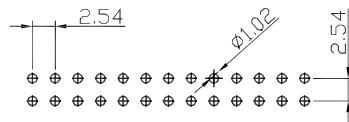
Part Number Information:

2541 BVT - X - X - XX 05 XX G

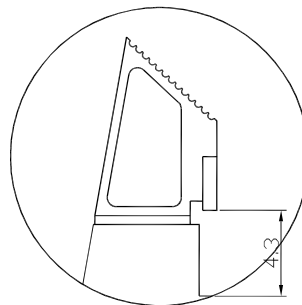
Series Number
BVT: board connector, vertical, THT
Latch type: S - short latch; L - long latch
Polarizing slot number: 1-single; 2-dual; 3-triple
No. of circuits: 06 to 64
Material: 05 -- PBT, UL94V-0
Color: BK--black; GY--gray
Plating: G -- gold flash

Circuits	Dimensions (mm)		
	A	B	C
6	26.92	16.76	5.08
8	29.46	19.30	7.62
10	32.00	21.84	10.16
12	34.54	24.38	12.70
14	37.08	26.92	15.24
16	39.62	29.46	17.78
18	42.16	32.00	20.32
20	44.70	34.54	22.86
22	47.24	37.08	25.40
24	49.78	39.62	27.94
26	52.32	42.16	30.48
28	54.86	44.70	33.02
30	57.40	47.24	35.56
32	59.94	49.78	38.10
34	62.48	52.32	40.64
36	65.02	54.86	43.18
38	67.56	57.40	45.72
40	70.10	59.94	48.26
42	72.64	62.48	50.80
44	75.18	65.02	53.34
46	77.72	67.56	55.88
48	80.26	70.10	58.42
50	82.80	72.64	60.96
52	85.34	75.18	63.50
54	87.88	77.72	66.04
56	90.42	80.26	68.58
58	92.96	82.80	71.12
60	95.50	85.34	73.66
62	98.04	87.88	76.20
64	100.58	90.42	78.74

							General Tolerance	Zeakka Electronics				Document No.: ZK-2541BVT		
							.X ±0.3					Title: HEADER, VERTICAL, THT TYPE, DUAL ROW, 2.54MM PITCH, GOLD FLASH		
							.XX ±0.2							
							.XXX ±0.1					Dimensions	Scale	Version
Date	Version	EC No.	Description	DRWN	CH'K	APPR	THIRD ANGLE PROJECTION	Kai Lee	Cris Wang	Jun Wei	2020.8.8	mm	1:1	A

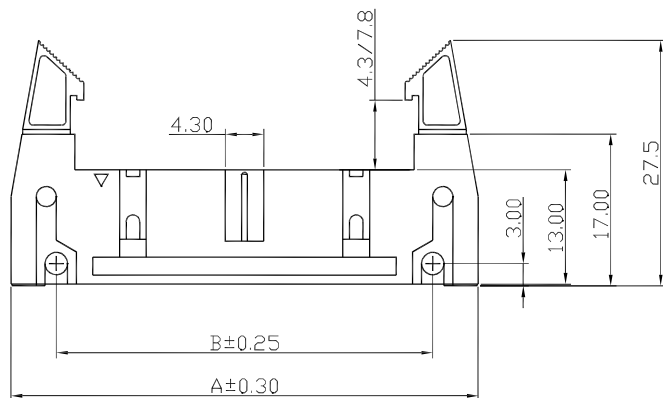


PCB LAYOUT



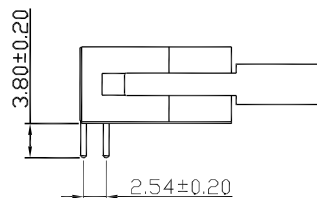
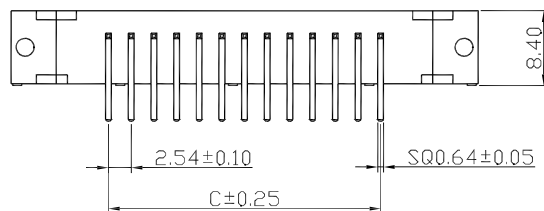
SHORT LATCH

Used for IDC connector without clamp



LONG LATCH

Used for IDC connector with clamp, or crimping socket



Specifications:

Current Rating: 3.0A AC/DC
Voltage rating: 250V AC/DC
Temperature range: -25°C to +85°C
Contact resistance: 20mΩ max.
Insulation resistance: 1000MΩ min.
Withstand voltage: 1500V AC/minute

Material:

Housing: PBT, UL94V-0, black/gray
PIN: brass

Mates with:

2541W (wire connector, crimp type, female, single polarizing guide)
2541WD (wire connector, crimp type, female, dual polarizing guide)
2541WC (cable connector, IDT type, female, single polarizing guide)
2541WCR (cable connector, IDT type, female, single polarizing guide, with strain relieve)

Part Number Information:

2541 BRT - X - X - XX 05 XX G

Series Number
BRT: board connector, R/A, THT
Latch type: S - short latch; L - long latch
Polarizing slot number: 1-single; 2-dual; 3-triple
No. of circuits: 06 to 64
Material: 05 -- PBT, UL94V-0
Color: BK--black; GY--gray
Plating: G -- gold flash

Circuits	Dimensions (mm)		
	A	B	C
6	26.92	16.76	5.08
8	29.46	19.30	7.62
10	32.00	21.84	10.16
12	34.54	24.38	12.70
14	37.08	26.92	15.24
16	39.62	29.46	17.78
18	42.16	32.00	20.32
20	44.70	34.54	22.86
22	47.24	37.08	25.40
24	49.78	39.62	27.94
26	52.32	42.16	30.48
28	54.86	44.70	33.02
30	57.40	47.24	35.56
32	59.94	49.78	38.10
34	62.48	52.32	40.64
36	65.02	54.86	43.18
38	67.56	57.40	45.72
40	70.10	59.94	48.26
42	72.64	62.48	50.80
44	75.18	65.02	53.34
46	77.72	67.56	55.88
48	80.26	70.10	58.42
50	82.80	72.64	60.96
52	85.34	75.18	63.50
54	87.88	77.72	66.04
56	90.42	80.26	68.58
58	92.96	82.80	71.12
60	95.50	85.34	73.66
62	98.04	87.88	76.20
64	100.58	90.42	78.74

							General Tolerance	Zeakka Electronics				Document No.: ZK-2541BRT		
							.X ±0.3					Title: HEADER, R/A, THT TYPE, DUAL ROW, 2.54MM PITCH, GOLD FLASH		
							.XX ±0.2							
							.XXX ±0.1					Dimensions	Scale	Version
Date	Version	EC No.	Description	DRWN	CH'K	APPR	THIRD ANGLE PROJECTION	Kai Lee	Cris Wang	Jun Wei	2020.8.8	mm	1:1	A

Circuits	Dimensions (mm)	
	A	B
6	5.08	12.02
8	7.62	14.56
10	10.16	17.10
12	12.70	19.64
14	15.24	22.18
16	17.78	24.72
18	20.32	27.26
20	22.86	29.80
22	25.40	32.34
24	27.94	34.88
26	30.48	37.42
28	33.02	39.96
30	35.56	42.50
32	38.10	45.04
34	40.64	47.58
36	43.18	50.12
38	45.72	52.66
40	48.26	55.20
42	50.80	57.74
44	53.34	60.28
46	55.88	62.82
48	58.42	65.36
50	60.96	67.90
52	63.50	70.44
54	66.04	72.98
56	68.58	75.52
58	71.12	78.06
60	73.66	80.60
62	76.20	83.14
64	78.74	85.68

Specifications:

Current Rating: 3.0A AC/DC
Voltage rating: 250V AC/DC
Temperature range: -25°C to +85°C
Contact resistance: 20mΩ max.
Insulation resistance: 1000MΩ min.
Withstand voltage: 1500V AC/minute

Material:

Housing: PBT , UL94V-0, black

Mates with: 2541BVT (header, vertical, THT type)

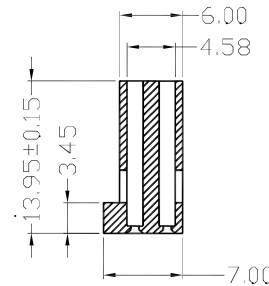
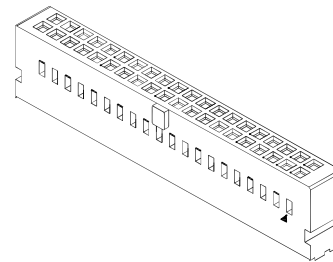
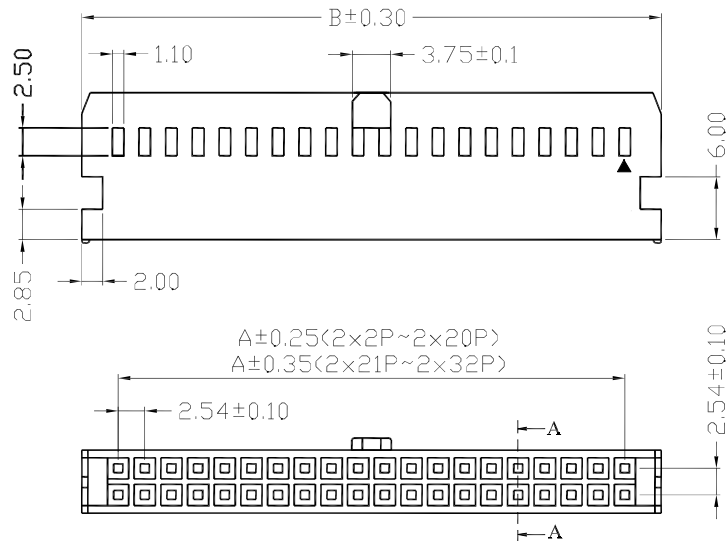
2541BRT (header, R/A, THT type)

Used with: 2541TFX-PX (female terminal)

2541TFHX-PX (female terminal, high crimp height)

Part Number Information:

	2541	W	- XX	05	BK
Series Number					
W: wire connector					
No. of circuits: 06 to 64					
Material: 05 -- PBT, UL94V-0					
Color: BK -- black					



Section A-A

							General Tolerance	Zeakka Electronics				Document No.: ZK-2541W		
							.X ±0.3					Title: HOUSING, FEMALE, CRIMP TYPE, DUAL ROW, 2.54MM PITCH		
							.XX ±0.2							
							.XXX ±0.1					Dimensions	Scale	Version
Date	Version	EC No.	Description	DRWN	CH'K	APPR	THIRD ANGLE PROJECTION	Kai Lee	Cris Wang	Jun Wei	2020.8.8	mm	1:1	A

Circuits	Dimensions (mm)	
	A	B
40	48.26	55.20
42	50.80	57.74
44	53.34	60.28
46	55.88	62.82
48	58.42	65.36
50	60.96	67.90
52	63.50	70.44
54	66.04	72.98
56	68.58	75.52
58	71.12	78.06
60	73.66	80.60
62	76.20	83.14
64	78.74	85.68

Specifications:

Current Rating: 3.0A AC/DC
Voltage rating: 250V AC/DC
Temperature range: -25°C to +85°C
Contact resistance: 20mΩ max.
Insulation resistance: 1000MΩ min.
Withstand voltage: 1500V AC/minute

Material:

Housing: PBT , UL94V-0, black

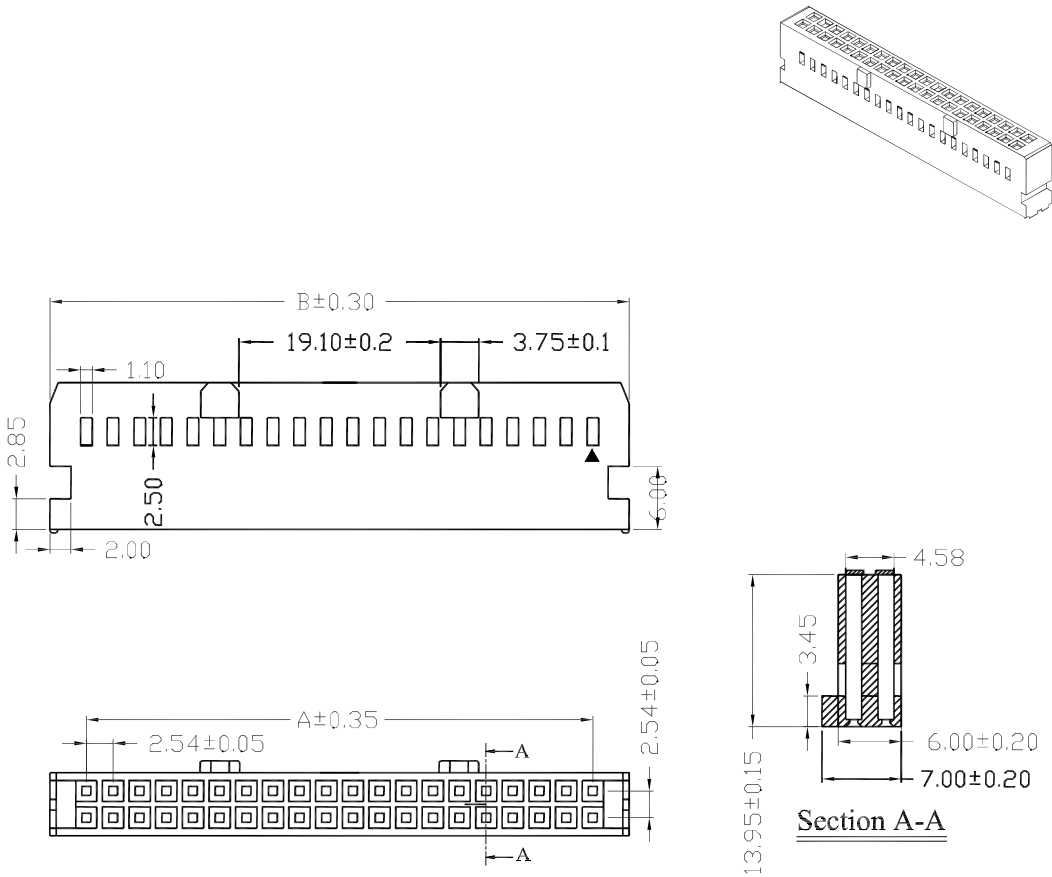
Mates with: 2541BVT (header, vertical, THT type)
2541BRT (header, R/A, THT type)

Used with: 2541TFX-PX (female terminal)
2541TFHX-PX (female terminal, high crimp height)

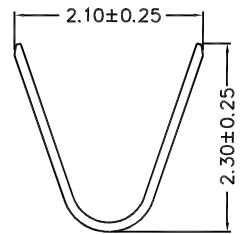
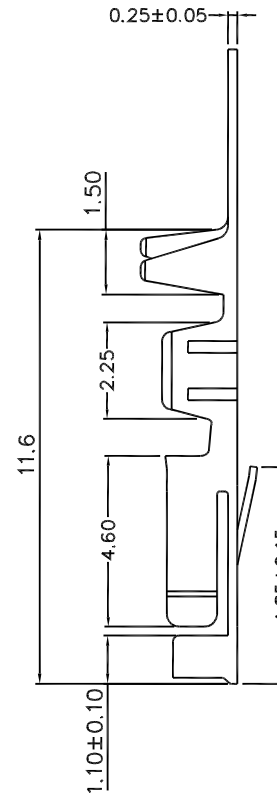
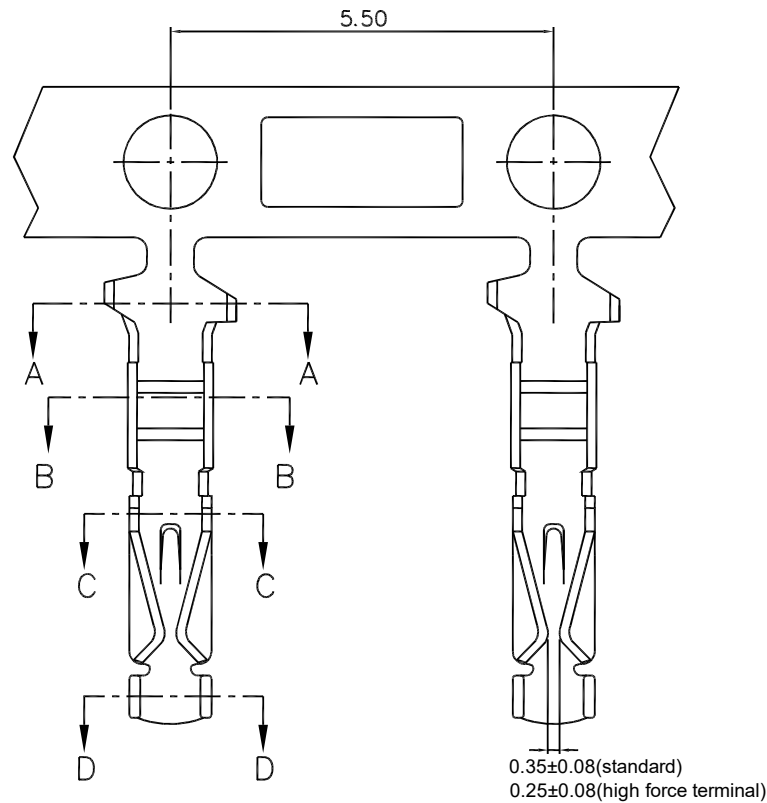
Part Number Information:

2541 WD - XX 05 BK

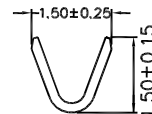
Series Number
WD: wire connector, dual polarizing guide
No. of circuits: 40 to 64
Material: 05-- PBT , UL94V-0
Color: BK -- black



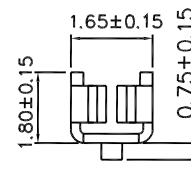
							General Tolerance	Zeakka Electronics				Document No.: ZK-2541WD		
							.X ±0.3					Title: HOUSING, MALE, CRIMP TYPE, DUAL ROW, 2.54MM PITCH		
							.XX ±0.2					Dimensions	Scale	Version
							.XXX ±0.1							
Date	Version	EC No.	Description	DRWN	CH'K	APPR	THIRD ANGLE PROJECTION	Kai Lee	Cris Wang	Jun Wei	2020.8.8	mm	1:1	A



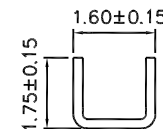
Section: A-A



Section: B-B



Section: C-C



Section: D-D

Specifications:

Current Rating: 3.0A AC/DC
Voltage rating: 250V AC/DC
Temperature range: -25°C to +85°C
Contact resistance: 20mΩ max.
Insulation resistance: 1000MΩ min.
Withstand voltage: 1500V AC/minute
Applicable wire: AWG28 - AWG22
Package: reel

Material:

Phosphor bronze

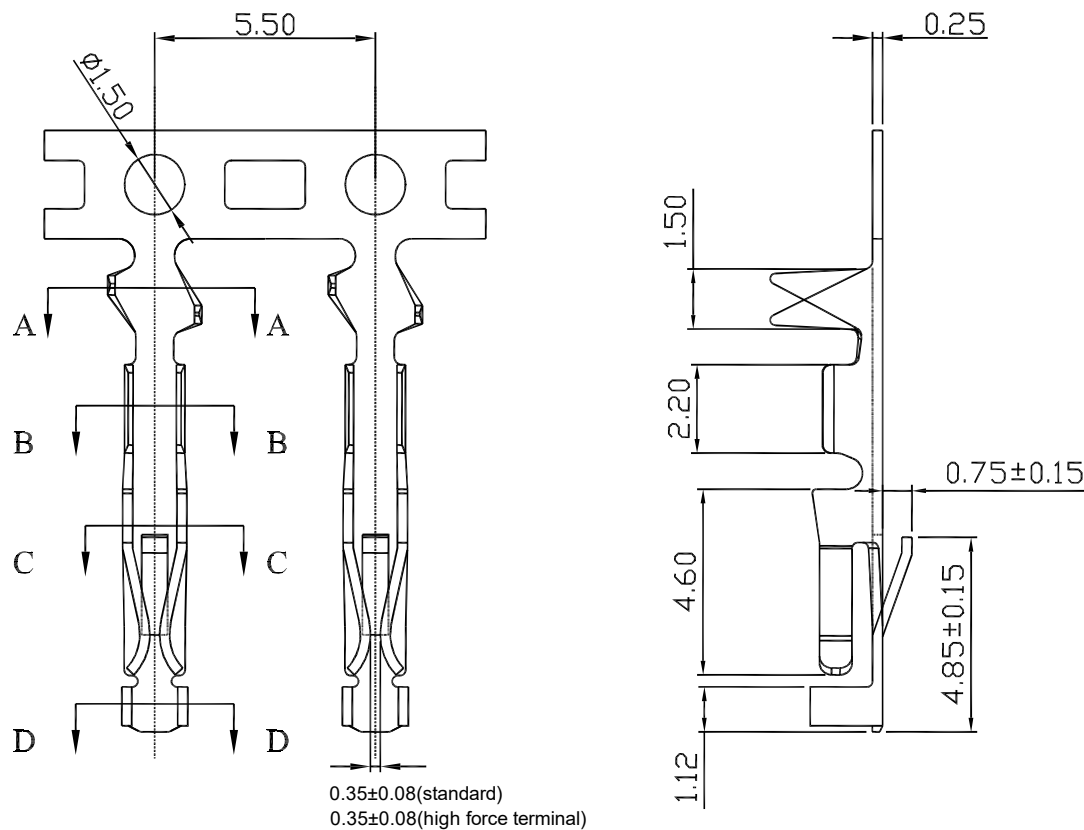
Used with:

2541W (wire connector, single polarizing guide)
2541WD (wire connector, dual polarizing guide)

Part Number Information:

Series Number	2541	TF	X	-	P	X
TF: terminal, female						
A: standard; B: high force terminal						
Material: P -- phosphor bronze						
Plating: T -- tin plating; G -- gold flash						

							General Tolerance	Zeakka Electronics				Document No.:	ZK-2541TF		
							.X ±0.3					Title:	TERMINAL, FEMALE, CRIMP TYPE, PHOSPHOR BRONZE, REEL		
							.XX ±0.2					APPR	CH'K	DRWN	Date
							.XXX ±0.1					THIRD ANGLE PROJECTION			
Date	Version	EC No.	Description	DRWN	CH'K	APPR		Kai Lee	Cris Wang	Jun Wei	2020.8.8	mm	1:1	Version	
														A	



Specifications:

Current Rating: 3.0A AC/DC
 Voltage rating: 250V AC/DC
 Temperature range: -25°C to +85°C
 Contact resistance: 20mΩ max.
 Insulation resistance: 1000MΩ min.
 Withstand voltage: 1500V AC/minute
 Applicable wire: AWG26 - AWG20
 Package: reel

Material:

Phosphor bronze

Used with:

2541W (wire connector, single polarizing guide)
 2541WD (wire connector, dual polarizing guide)

Part Number Information:

Series Number: 2541 TFH X - P X
 TFH: terminal, female, high crimp height
 A: standard; B: high force terminal
 Material: P -- phosphor bronze
 Plating: T -- tin plating; G -- gold flash

							General Tolerance	Zeakka Electronics				Document No.: ZK-2541TFH		
							.X ± 0.3					Title: TERMINAL, MALE, CRIMP TYPE, PHOSPHOR BRONZE, REEL		
							.XX ± 0.2							
							.XXX ± 0.1					Dimensions	Scale	Version
Date	Version	EC No.	Description	DRWN	CH'K	APPR	THIRD ANGLE PROJECTION	Kai Lee	Cris Wang	Jun Wei	2020.8.8	mm	1:1	A

Specifications:

Current Rating: 3.0A AC/DC
Voltage rating: 250V AC/DC
Temperature range: -25°C to +85°C
Contact resistance: 20mΩ max.
Insulation resistance: 1000MΩ min.
Withstand voltage: 1000V AC/minute

Material:

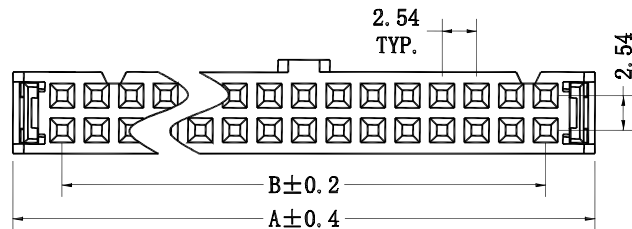
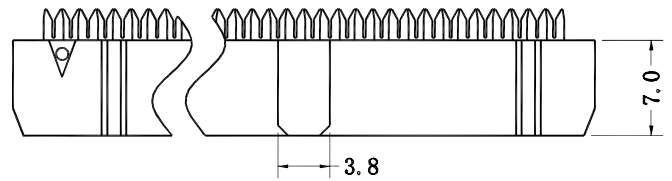
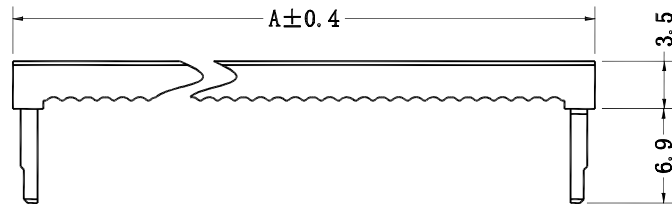
Housing: PBT , UL94V-0, black
Terminal: brass

Mates with: 2541BVT (header, vertical, THT type)
2541BRT (header, R/A, THT type)

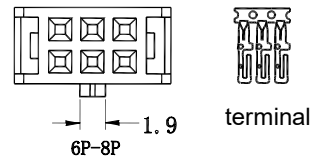
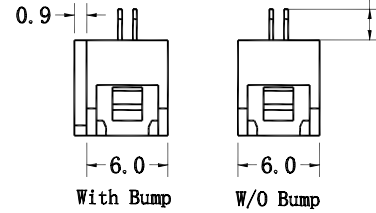
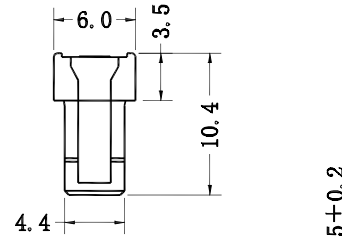
Part Number Information:

2541 WC - XX 05 BK G

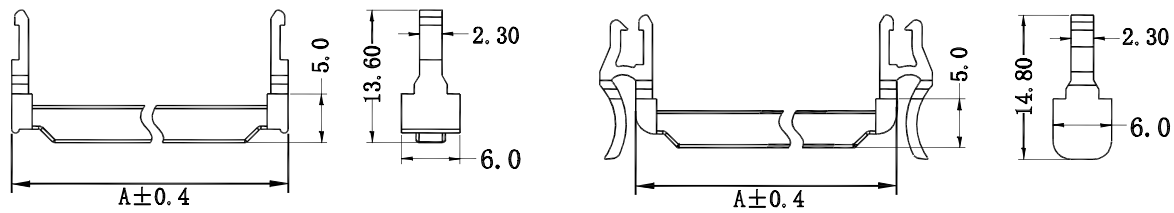
Series Number
WC: cable connector, IDT type
No. of circuits: 06 to 64
Material: 05-- PBT , UL94V-0
Color: BK -- black
Plating: G -- gold flash



$A = 2.54 * \text{NO of Positions} / 2 + 4.70$
 $B = 2.54 * \text{NO of Positions} / 2 - 2.54$



							General Tolerance	Zeakka Electronics				Document No.: ZK-2541WC		
							.X ±0.3					Title: IDC SOCKET, DUAL ROW, 2.54MM PITCH, GOLD FLASH		
							.XX ±0.2					Dimensions	Scale	Version
							.XXX ±0.1					mm	1:1	A
Date	Version	EC No.	Description	DRWN	CH'K	APPR	THIRD ANGLE PROJECTION	Kai Lee	Cris Wang	Jun Wei	2020.8.8			



Material:

Housing: PBT , UL94V-0, black

$A = 2.54 * N0 \text{ of Positions} / 2 + 4.70$

Part Number Information:

	<u>2541</u>	<u>SR</u>	<u>- XX</u>	<u>05</u>	<u>BK</u>
Series Number					
WC: cable connector, IDT type					
No. of circuits of IDC connector used with: 06 to 64					
Material: 05-- PBT , UL94V-0					
Color: BK -- black					

							General Tolerance	Zeakka Electronics				Document No.: ZK-2541SR		
							.X ± 0.3					Title: IDC SOCKET, DUAL ROW, 2.54MM PITCH, GOLD FLASH		
							.XX ± 0.2							
							.XXX ± 0.1					Dimensions	Scale	Version
Date	Version	EC No.	Description	DRWN	CH'K	APPR	THIRD ANGLE PROJECTION	Kai Lee	Cris Wang	Jun Wei	2020.8.8	mm	1:1	A