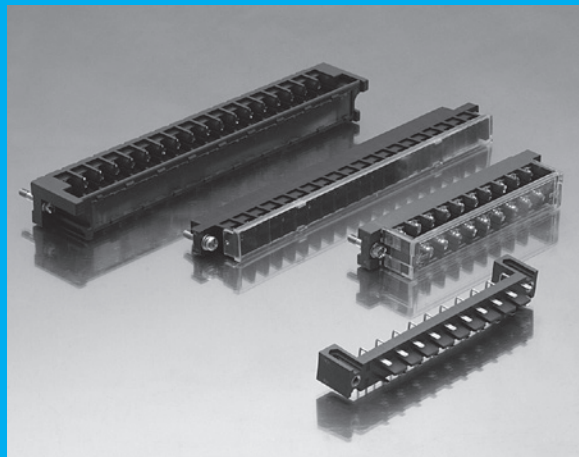


7010/7011/7030/7040 SERIES

TERMINAL BLOCK CONNECTOR

RoHS
Compliant



► 7010 / 7030 Series

10.16mm pitch terminal block connector, Receptacle

► 7011 Series

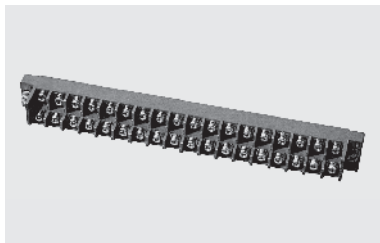
10.16mm pitch terminal block connector, Header

► 7040 Series

9.0mm pitch terminal block connector

10.16mm PITCH TERMINAL BLOCK CONNECTOR 7010/7011/7030 SERIES

RoHS
Compliant



ORDER CODE

7010- **-160-F**

① ② ③ ④

* Please order in multiples of the quantity per package.

- | | |
|---|------------------------------------|
| ① [Type] 7010 : Receptacle | ③ [Contact name] 160 |
| ② [Number of contacts] 012 : 12pin 020 : 20pin 036 : 36pin | ④ [RoHS] F : RoHS compliant |



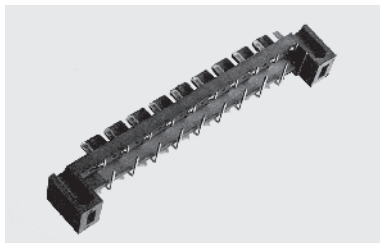
ORDER CODE

7030- **-160-F**

① ② ③ ④

* Please order in multiples of the quantity per package.

- | | |
|---|------------------------------------|
| ① [Type] 7030 : Receptacle | ③ [Contact name] 160 |
| ② [Number of contacts] 012 : 12pin 020 : 20pin 036 : 36pin | ④ [RoHS] F : RoHS compliant |



ORDER CODE

7011- **-** **-F**

① ② ③ ④

* Please order in multiples of the quantity per package.

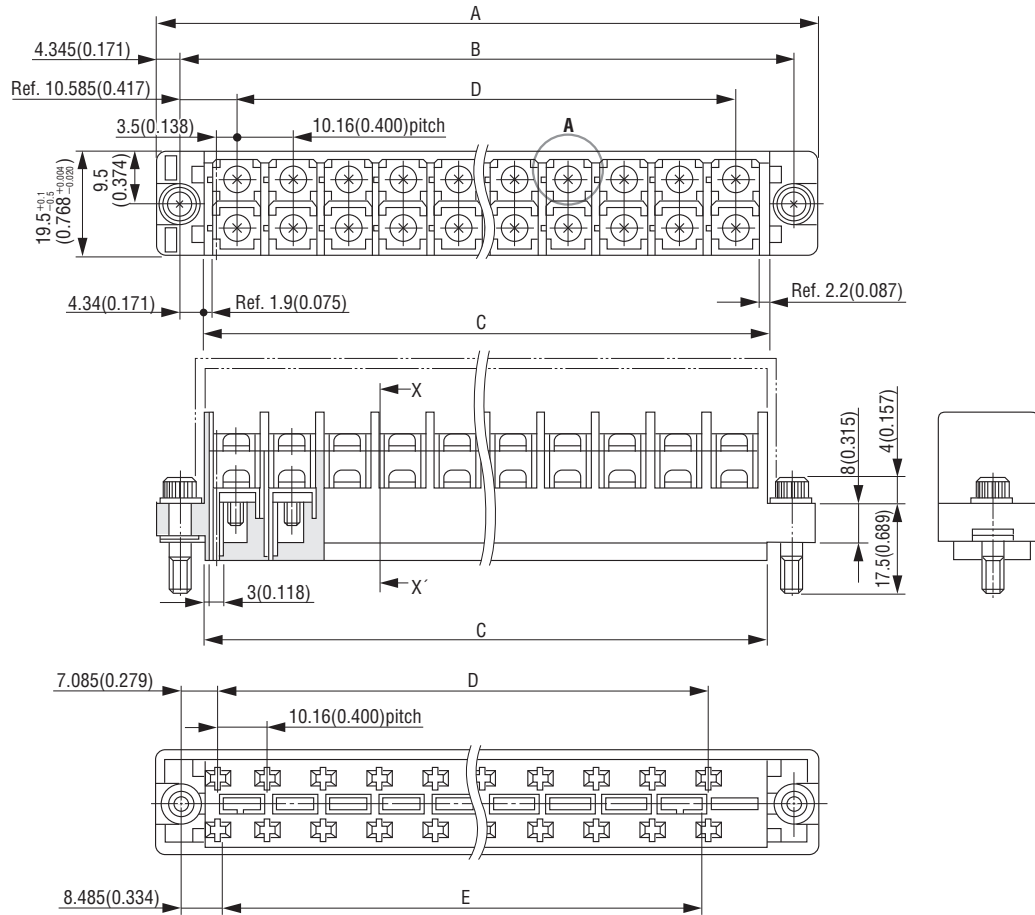
- | | |
|---|--|
| ① [Type] 7011 : Header | |
| ② [Number of contacts] 012 : 12pin 020 : 20pin 036 : 36pin | |
| ③ [Contact name] 161L : Right angle (Left) 161R : Right angle (Right) 163 : Straight | |
| ④ [RoHS] F : RoHS compliant | |

SPECIFICATIONS

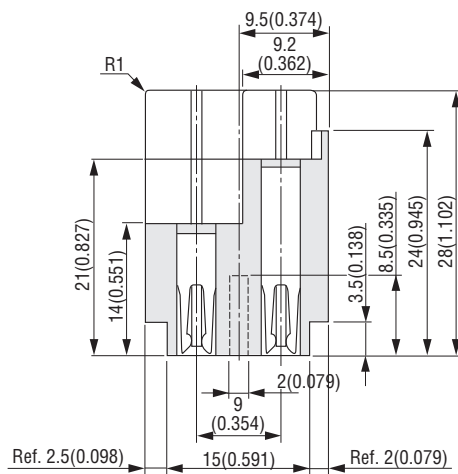
Material and plating		Electrical Characteristics	
Insulator material	Glass-Filled PBT(UL94V-0)	Current rating	5A per contact
Contact material	Copper Alloy	Contact resistance	16mΩ max.
Contact plating	[7010/7030] Gold over nickel (A part) [7011] Gold over Nickel	Dielectric withstanding voltage	2000V AC for 1 minute
Captive clamp screw	M3.5×8 [7010](Material) Steel (Finish) Trivalent Chromate plating [7030](Material) Brass (Finish) Nickel plating	Insulation resistance	5,000MΩ min. at 500V DC
Jackscrew	M4 (Material) Brass (Finish) Nickel plating	Insertion force	4.45N max./pair
		Withdrawal force	0.56N min./pair
		Recommended cable	Stranded wire: 2.0mm ² max. Single wire: 1.6mm max.

7010- -160-F (Receptacle)

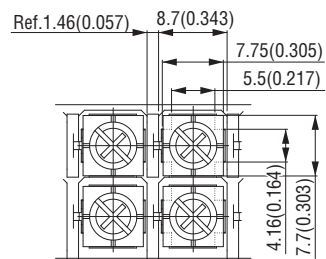
Unit : mm(inch)



X-X' Cross Section



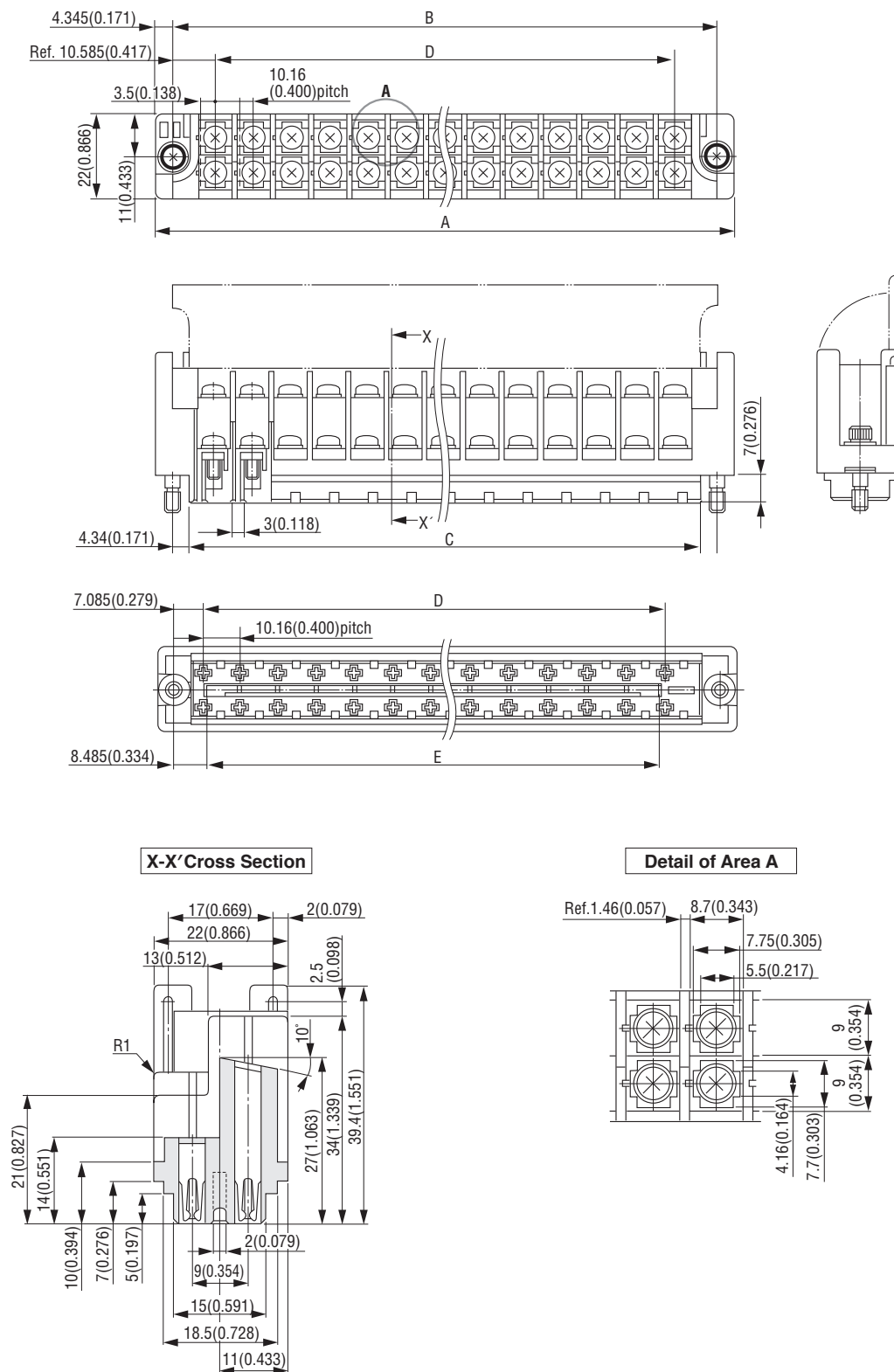
Detail of Area A



Packaging style
Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
12	7010-012-160-F	81.08 (3.192)	72.39 (2.850)	63.43 (2.497)	50.80 (2.000)	48.80 (1.921)	45
20	7010-020-160-F	121.72 (4.792)	113.03 (4.450)	104.07 (4.097)	91.44 (3.600)	89.44 (3.521)	30
36	7010-036-160-F	203.00 (7.992)	194.31 (7.650)	185.35 (7.297)	172.72 (6.800)	170.72 (6.721)	15


Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
12	7030-012-160-F	81.08 (3.192)	72.39 (2.850)	63.43 (2.497)	50.80 (2.000)	48.80 (1.921)	27
20	7030-020-160-F	121.72 (4.792)	113.03 (4.450)	104.07 (4.097)	91.44 (3.600)	89.44 (3.521)	18
36	7030-036-160-F	203.00 (7.992)	194.31 (7.650)	185.35 (7.297)	172.72 (6.800)	170.72 (6.721)	9

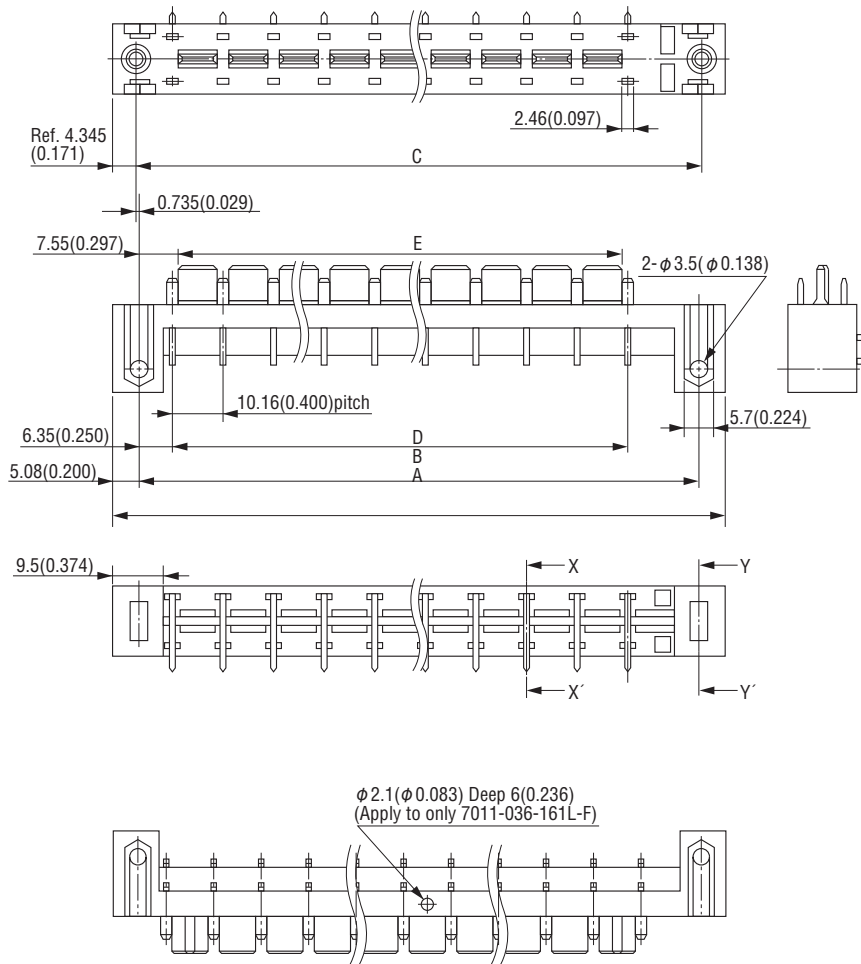
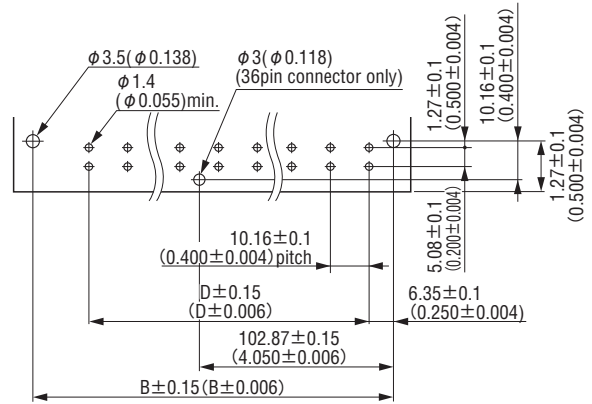
Packaging style

Other

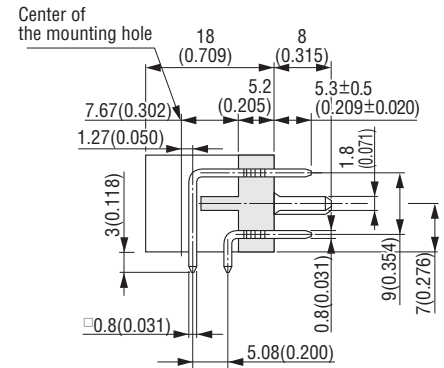
7011- -161L-F (Header, Right angle)

Unit : mm(inch)

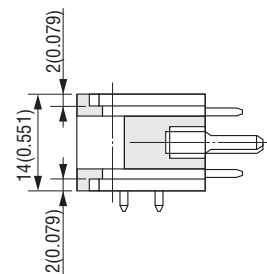
Printed Circuit Board Layout (Component Side View)



X-X' Cross Section



Y-Y' Cross Section

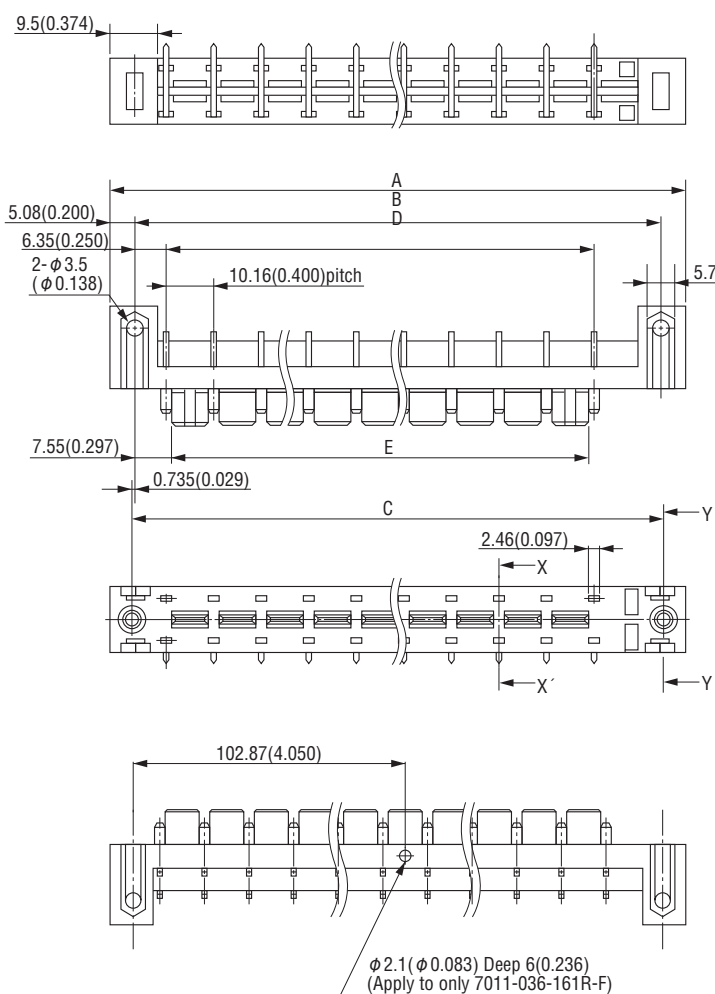
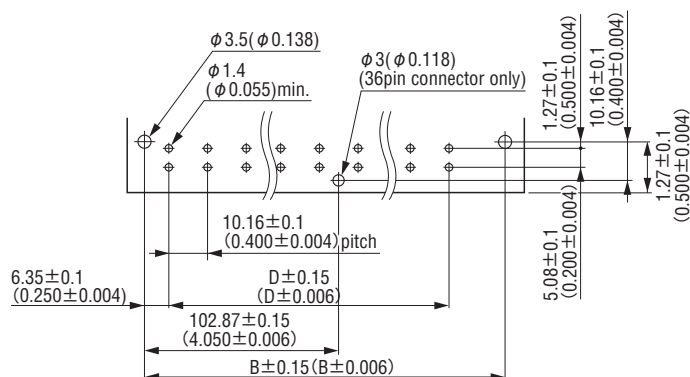
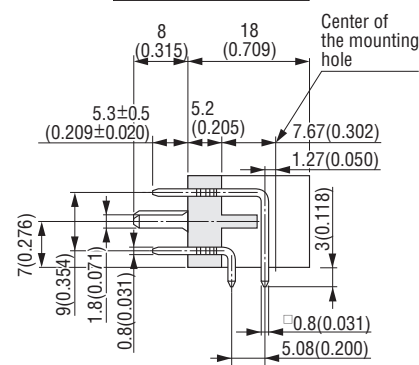
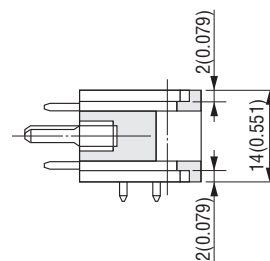


Packaging style

Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
12	7011-012-161L-F	81.08 (3.192)	71.12 (2.800)	72.39 (2.850)	50.80 (2.000)	48.50 (1.909)	90
20	7011-020-161L-F	121.72 (4.792)	111.76 (4.400)	113.03 (4.450)	91.44 (3.600)	89.14 (3.509)	60
36	7011-036-161L-F	203.00 (7.992)	193.04 (7.600)	194.31 (7.650)	172.72 (6.800)	170.42 (6.709)	30

▶ Printed Circuit Board Layout (Component Side View)

X-X' Cross Section

Y-Y' Cross Section

Packaging style

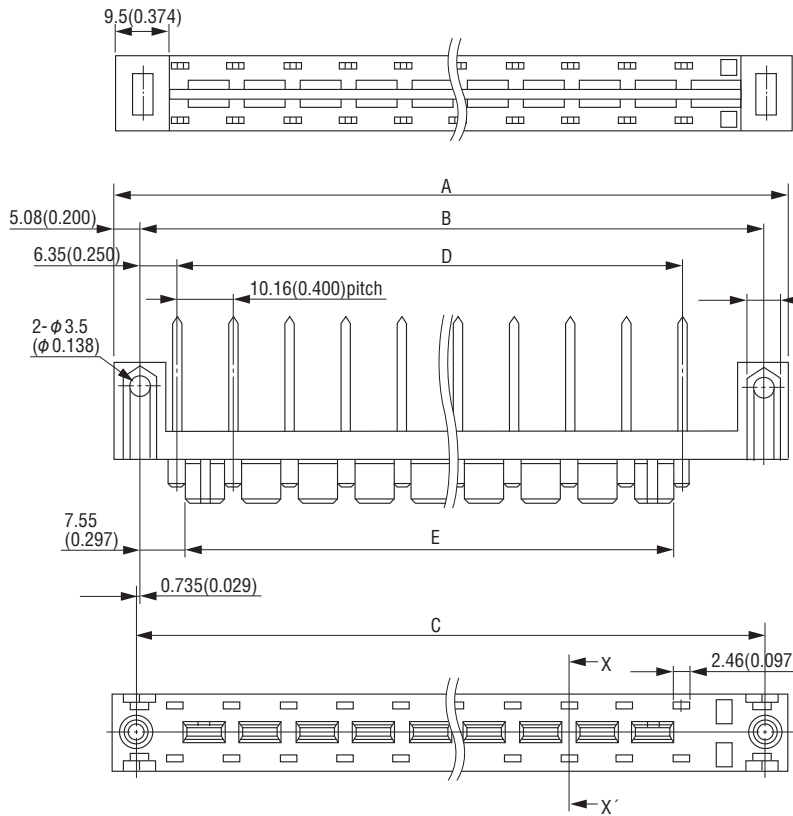
Other

▶ Product Table / Dimensions

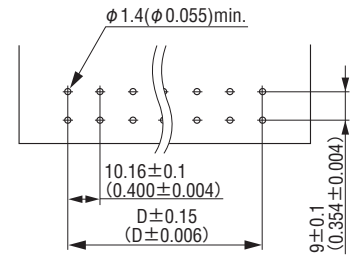
No. of contacts	Part Number	A	B	C	D	E	Number of packaging
12	7011-012-161R-F	81.08 (3.192)	71.12 (2.800)	72.39 (2.850)	50.80 (2.000)	48.50 (1.909)	90
20	7011-020-161R-F	121.72 (4.792)	111.76 (4.400)	113.03 (4.450)	91.44 (3.600)	89.14 (3.509)	60
36	7011-036-161R-F	203.00 (7.992)	193.04 (7.600)	194.31 (7.650)	172.72 (6.800)	170.42 (6.709)	30

7011-□□□-163-F (Header, Straight)

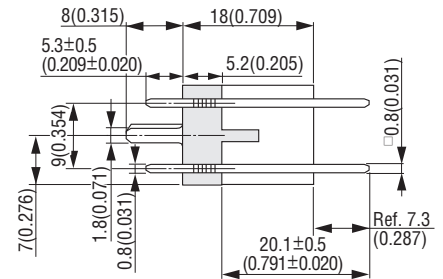
Unit : mm(inch)



Printed Circuit Board Layout (Component Side View)



X-X' Cross Section



Packaging style

Other

Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	Number of packaging
12	7011-012-163-F	81.08 (3.192)	71.12 (2.800)	72.39 (2.850)	50.80 (2.000)	48.50 (1.909)	50
20	7011-020-163-F	121.72 (4.792)	111.76 (4.400)	113.03 (4.450)	91.44 (3.600)	89.14 (3.509)	30
36	7011-036-163-F	203.00 (7.992)	193.04 (7.600)	194.31 (7.650)	172.72 (6.800)	170.42 (6.709)	20

7000 series product table & combination

Receptacle (Terminal side)		Header (Board side)	
7010-□□□-160-F	○ ○	7011-□□□-161 R-F·L-F	
7030-□□□-160-F	○ ○	7011-□□□-163-F	

9.0mm PITCH TERMINAL BLOCK CONNECTOR 7040 SERIES

RoHS
Compliant



ORDER CODE

7040-020-165-F

①

②

③

④

* Please order in multiples of the quantity per package.

① [Series name] 7040

③ [Contact name] 165

② [Number of contacts] 020 : 20pin

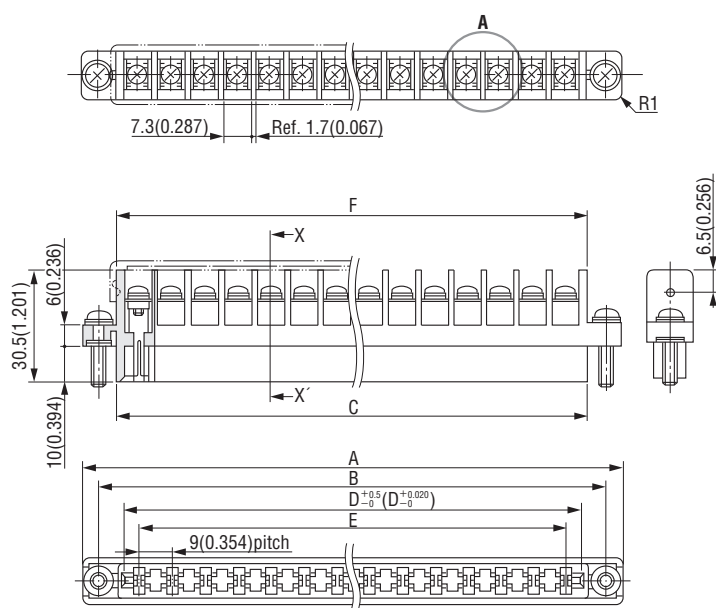
④ [RoHS] F : RoHS compliant

SPECIFICATIONS

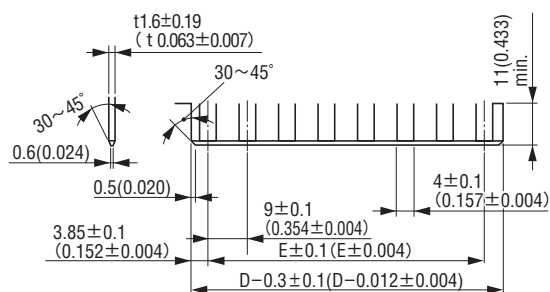
Material and plating		Electrical Characteristics	
Insulator material	Glass-Filled PBT(UL94V-0)	Current rating	10A per contact
Contact material	Copper Alloy	Contact resistance	16mΩ max.
Contact plating	Gold over nickel (A part)	Dielectric withstanding voltage	2000V AC for 1 minute
Captive clamp screw	M3×6 (Material) Steel (Finish) Trivalent Chromate plating	Insulation resistance	1,000MΩ min. at 500V DC
Jackscrew	M4×18 (Material) Steel (Finish) Trivalent Chromate plating	Insertion force	80.4N max./pair
		Withdrawal force	12.7N min./pair
		Recommended cable	φ0.3~2.0mm(Crimping terminal use)

7040-020-165-F

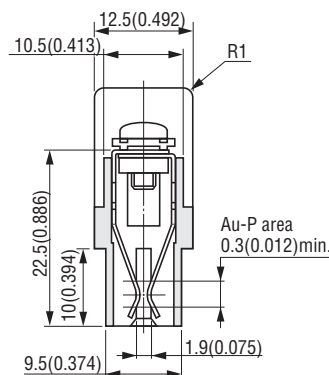
Unit : mm(inch)



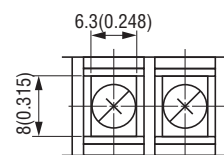
Printed Circuit Board Layout (Component Side View)



X-X' Cross Section



Detail of Area A



Product Table / Dimensions

No. of contacts	Part Number	A	B	C	D	E	F	Number of packaging
20	7040-020-165-F	202.0 (7.953)	193.0 (7.598)	183.0 (7.205)	179.0 (7.047)	171.0 (6.732)	182.0 (7.165)	24

Packaging style

Other