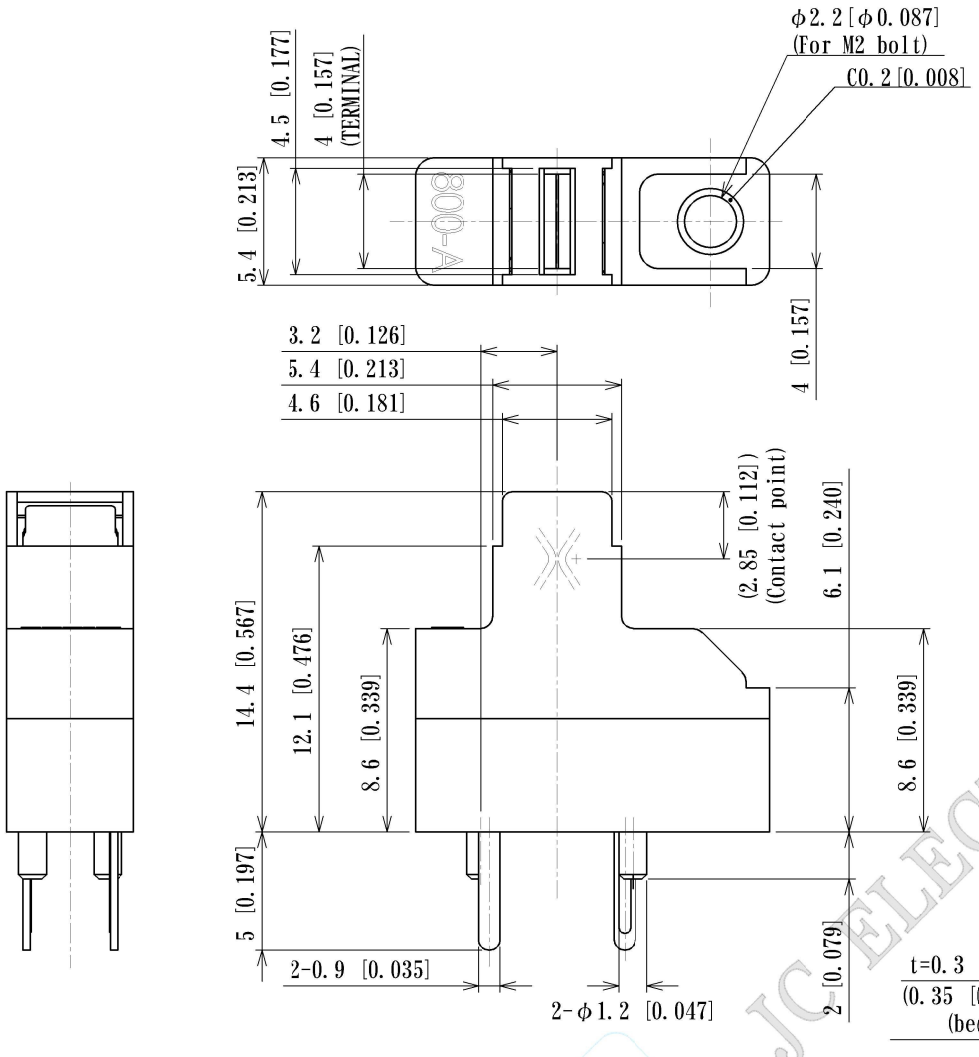
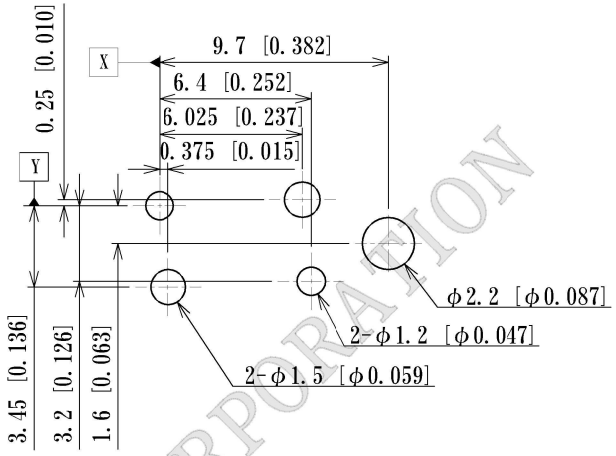
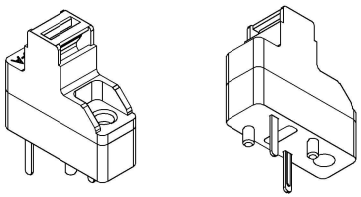
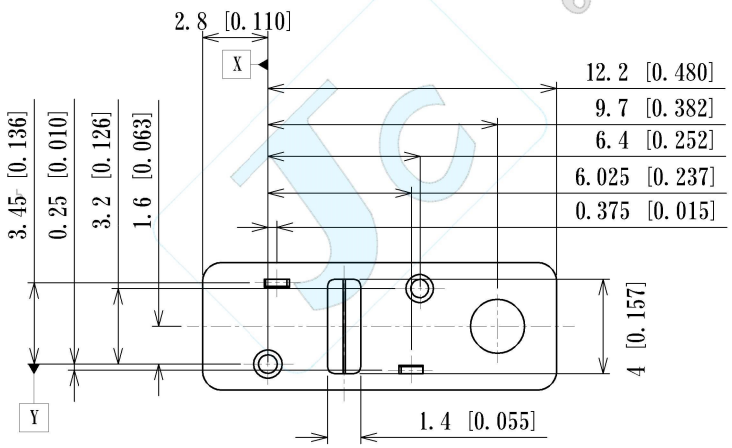


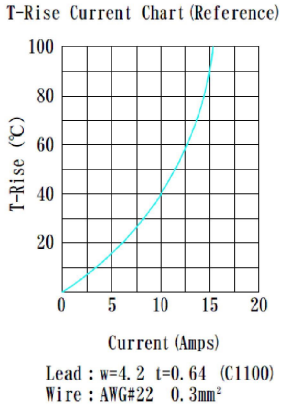


PC Bord layout
(Top view)
(Tolerance : ±0.05)



Isometoric view





Specifications
Durability : 10,000 cycles min.
Contact resistance : 20mΩ max
Operating temperature : -55℃～+175℃
*Including terminal temperature rise.

Note
1. First, fix the product to the PCB with M2 bolt and nut. After that, perform the soldering and cable wiring processes.
2. Bolt and nut are not included.
3. The required bolt length varies depending on the usage. Please prepare a M2 bolt with a length that suits your usage.
4. When the board is not used, fix the base insulator and cover insulator with bolt and nut.

Date 2023/08/18	JC ELECTRONICS CORPORATION
Materials Finish	TERMINAL : Copper Alloy, t0.3 Au Plating over Ni INSULATOR : Heat Resisting Plastics
Dimensions Style mm [inch]	Title POWER MODULE SOCKET (5.4Pitch)
Third Angle Projection	Part Number PMS-5400P-S
Rev. No 0	

A

JC ELECTRONICS CORPORATION

PMS series
高電流ﾊﾟｯｹｰｼﾞ(ﾃﾞﾊﾞｲｽ)用 ﾓｼﾞｭｰﾙ型ｿｹｯﾄ
Modular Socket for Power Semiconductor Package

For Power Transistor

For SIP Package

For Intelliget Power Module(IPM)

特徴 Feature

○ﾊﾟｯｹｰｼﾞに合わせて様々なﾚｲｱｳﾄの配置が可能です。
Placeable in various layouts depending on the package design.
○ｹﾙﾋﾞﾝｺﾝﾀｸﾄ仕様 Kelvin contact type
○高耐熱仕様 High temperature type

仕様 Specifications

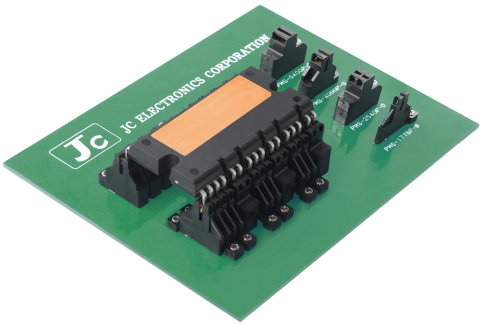
耐久性 Durability : 10,000 cycles min.
接触抵抗 Contact resistance : 20mΩ max *
使用温度 Operating temperature : -55℃～+175℃ *
通電による温度上昇分も含みます。
Including Terminal Temperature Rise.

代表的材料と処理 Materials & finish

ﾊｳｼﾞﾝｸﾞ Housing : 耐熱ﾌﾟﾗｽﾁｯｸ Thermoplastic
ｺﾝﾀｸﾄ Contact : 銅合金 Copper alloy Au Plating over Ni *

実装方法 Mounting method : ﾃﾞｨｯﾌﾟ DIP
基板実装方向 PCB Mounting direction : ｽﾄﾚｰﾄ Straight

* 高耐熱ﾀｲﾌﾟは仕様が異なります。 Specifications for High Temperature Type are Different.

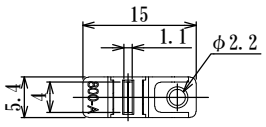


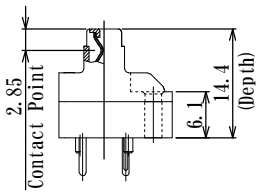
最小整列ﾋﾟｯﾁ
Minimum Arrangement Pitch
5.4mm Pitch ～

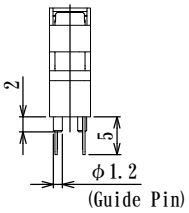
適合ﾘｰﾄﾞｻｲｽﾞ
Acceptable Lead Size
w=4.0(max)
t=0.3～1.0mm
L=3.0(min)

品番 P/N
PMS-5400P-S-□□

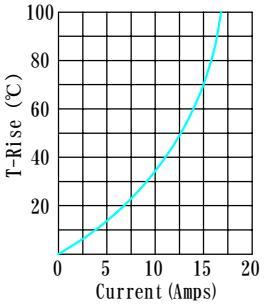
Blank: Standard
HT: High Temperature
-55℃～+220℃



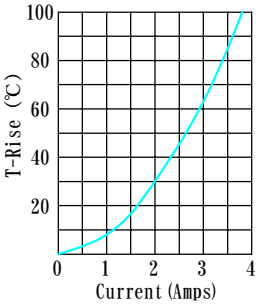


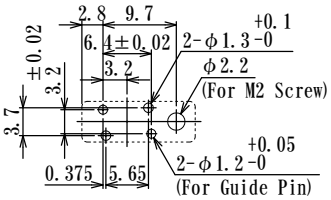


PMS-5400P-S
T-Rise Current Chart(Reference)



PMS-5400P-S-HT
T-Rise Current Chart(Reference)





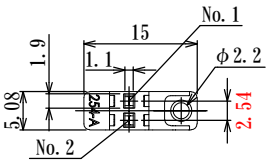
PC Board Layout
(Top View)

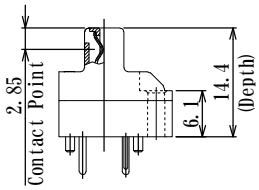
最小整列ﾋﾟｯﾁ
Minimum Arrangement Pitch
5.08mm Pitch ～

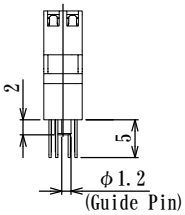
適合ﾘｰﾄﾞｻｲｽﾞ
Acceptable Lead Size
w=1.9(max)
t=0.3～1.0mm
L=3.0(min)

品番 P/N
PMS-2540P-D-□□

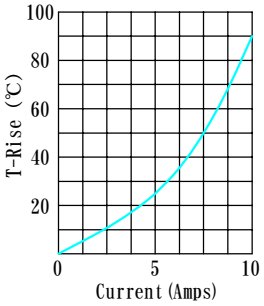
Blank: Standard
HT: High Temperature
-55℃～+220℃



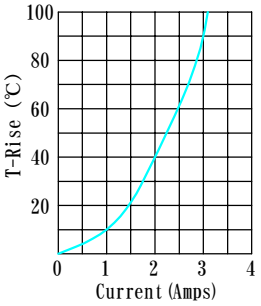


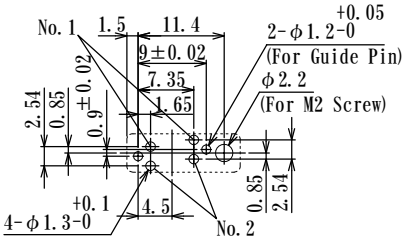


PMS-2540P-D
T-Rise Current Chart(Reference)

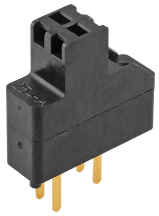


PMS-2540P-D-HT
T-Rise Current Chart(Reference)





PC Board Layout
(Top View)

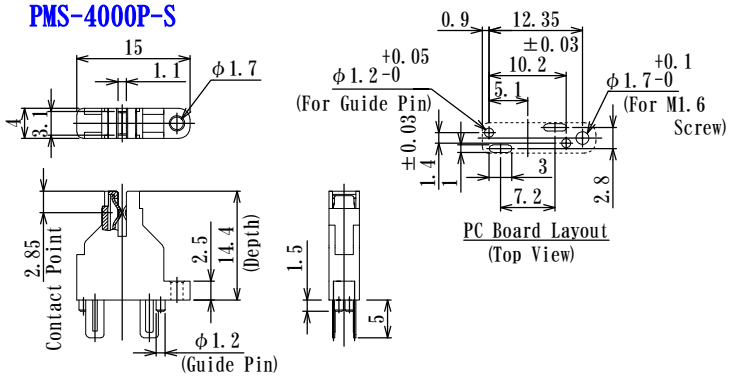


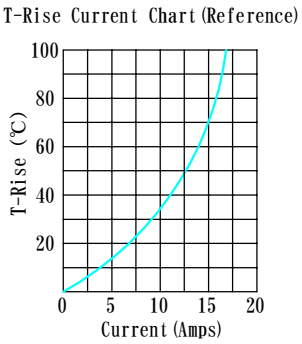
1ﾓｼﾞｭｰﾙ 2極のｿｹｯﾄです。
2 poles modular socket

最小整列ﾋﾟｯﾁ
Minimum Arrangement Pitch
4.0mm Pitch ～

品番 P/N
PMS-4000P-S

適合ﾘｰﾄﾞｻｲｽﾞ
Acceptable Lead Size
w=3.1(max)
t=0.3～1.0mm
L=3.0(min)



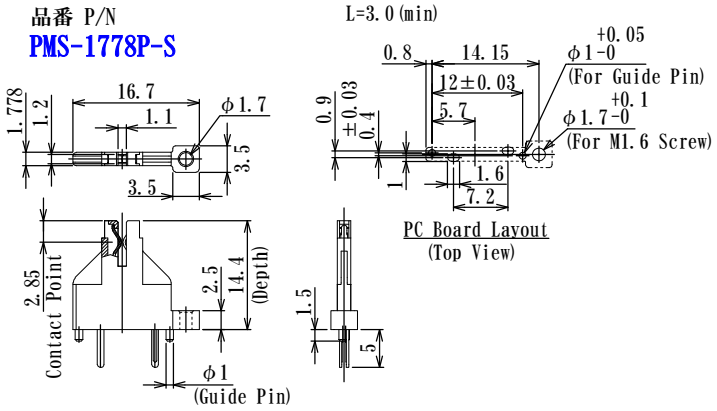


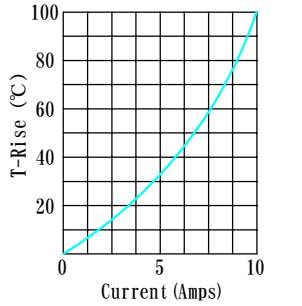
最小整列ﾋﾟｯﾁ
Minimum Arrangement Pitch
1.778mm Pitch ～

品番 P/N
PMS-1778P-S

適合ﾘｰﾄﾞｻｲｽﾞ
Acceptable Lead Size
w=1.2(max)
t=0.3～1.0mm
L=3.0(min)

交互に反対向きで整列させます。
Arrange in opposite directions

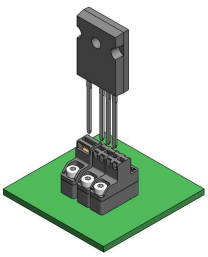


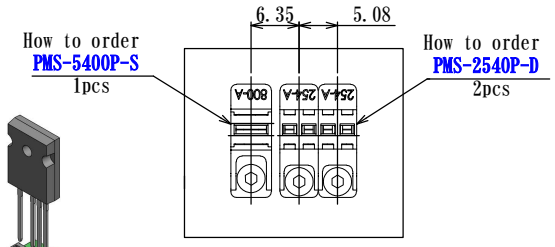


○How to use

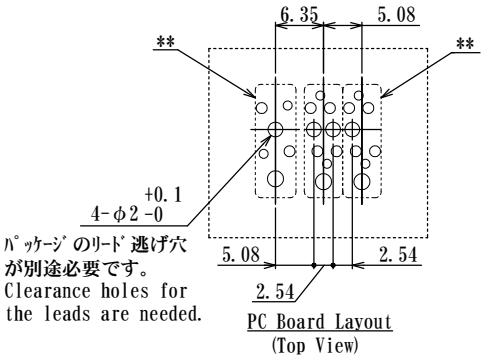
Example)

1) ﾊﾟﾜｰﾄﾗﾝｼﾞｽﾀ TO-247(4pin) 用ｿｹｯﾄﾚｲｱｳﾄ
Layout for TO-247(4pin) Package

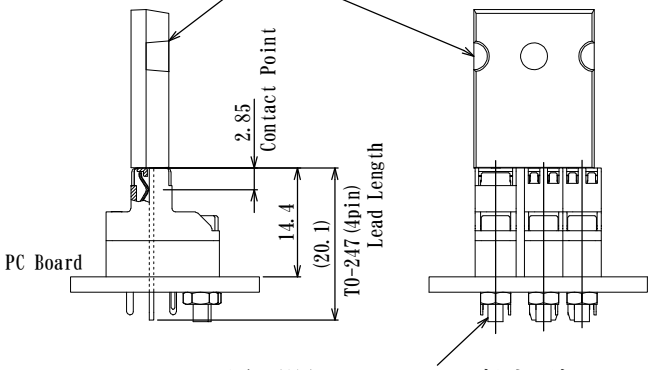




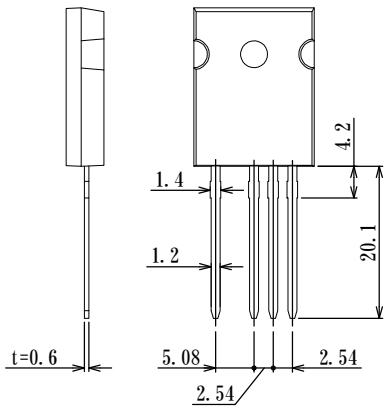
Socket Layout



** 各ﾓｼﾞｭｰﾙ型ｿｹｯﾄのPC Board Layoutは2L1～2L2ﾍﾟｰｼﾞを
ご参照ください。
Please refer to page 2L1～2L2 for PC Board Layout
of each Modular Socket.



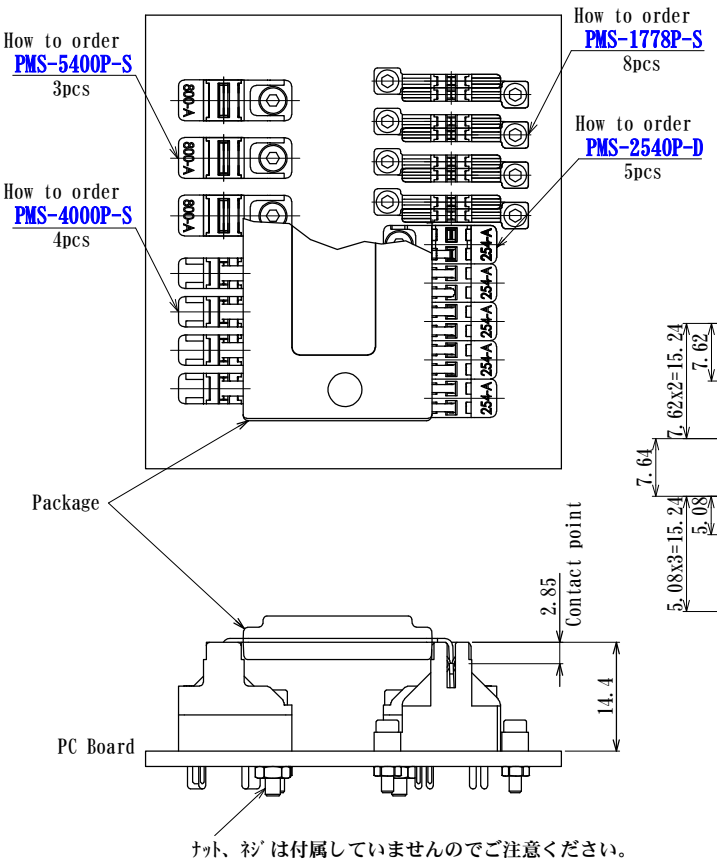
ﾅｯﾄ、ﾈｼﾞは付属していませんのでご注意ください。
Please note that the nuts and screws are not included.



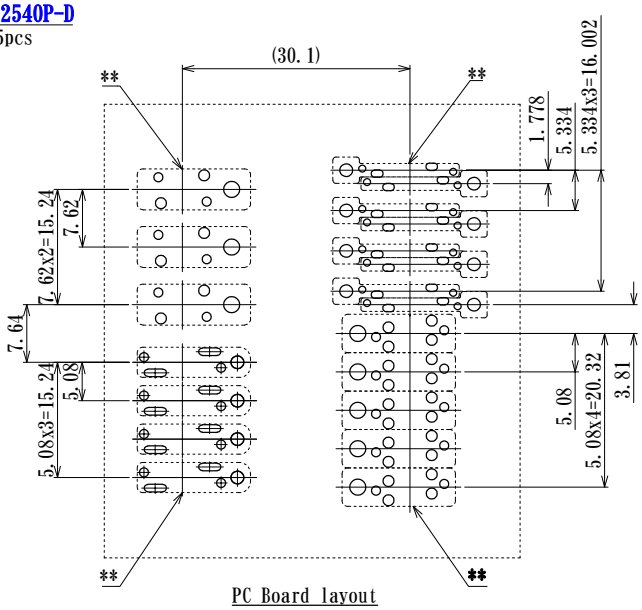
○How to use

Example)

2) Intelligent Power Modele (IPM) 用ｿｹｯﾄﾚｲｱｳﾄ
Layout for IPM package



ﾅｯﾄ、ﾈｼﾞは付属していませんのでご注意ください。
Please note that the nuts and screws are not included.



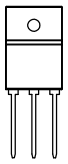
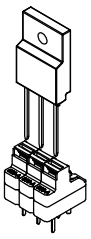
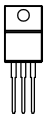
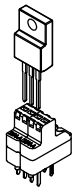
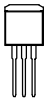
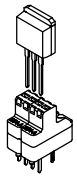
PC Board layout
(Top View)

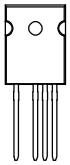
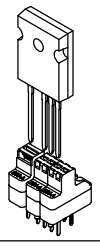
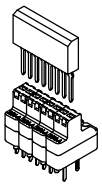
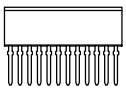
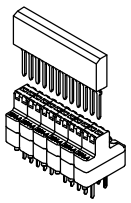
** 各ﾓｼﾞｭｰﾙ型ｿｹｯﾄのPC Board Layoutは
2L1～2L2 Page をご参照ください。
Please refer to page 2L1～2L2 for
PC Board Layout of each Modular Socket.

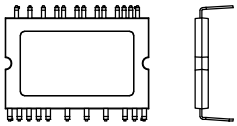
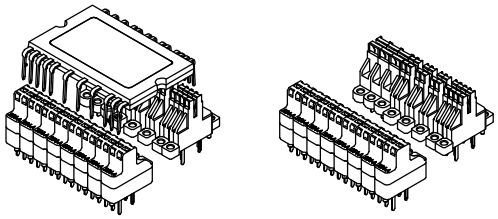
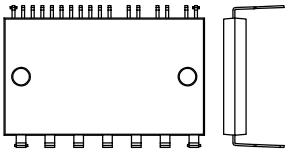
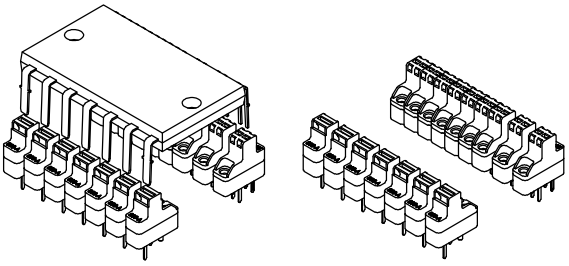
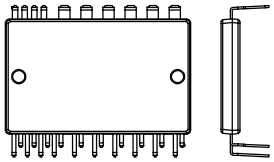
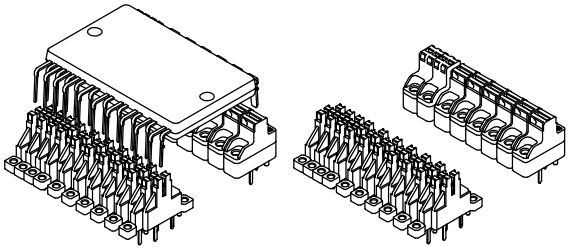
お客様のご仕様に合わせて、基板の設計製造も行っています。
別途お問い合わせ下さい。
We also design and manufacture substrates according to
customer's specifications. Please feel free to contact us.

○各種ﾊﾟｯｹｰｼﾞ対応例一覧　Examples of modular socket arrangement

高電流ﾊﾟｯｹｰｼﾞ用ﾓｼﾞｭｰﾙ型ｿｹｯﾄの適合ﾊﾟｯｹｰｼﾞ例を下記に示します。
Examples of modular socket arrangement for high current device packages.

Package		Acceptable Module Socket	Q'ty of Socket
TO-3P TO-247 TO-264 (3pin)			PMS-5400P-S　3pcs PMS-2540P-D　0pcs PMS-4000P-S　0pcs PMS-1778P-S　0pcs
TO-220 TO-257 (3pin)			PMS-5400P-S　0pcs PMS-2540P-D　2pcs PMS-4000P-S　0pcs PMS-1778P-S　0pcs
TO-262 (3pin)			PMS-5400P-S　0pcs PMS-2540P-D　2pcs PMS-4000P-S　0pcs PMS-1778P-S　0pcs

Package		Acceptable Module Socket	Q'ty of Socket
TO-247 (4pin)			PMS-5400P-S　1pcs PMS-2540P-D　2pcs PMS-4000P-S　0pcs PMS-1778P-S　0pcs
(8pin)			PMS-5400P-S　0pcs PMS-2540P-D　4pcs PMS-4000P-S　0pcs PMS-1778P-S　0pcs
(12pin)			PMS-5400P-S　0pcs PMS-2540P-D　6pcs PMS-4000P-S　0pcs PMS-1778P-S　0pcs

Package		Acceptable Module Socket	Q'ty of Socket
Ex. 1			PMS-5400P-S　0pcs PMS-2540P-D　8pcs PMS-4000P-S　3pcs PMS-1778P-S　10pcs
Ex. 2			PMS-5400P-S　7pcs PMS-2540P-D　9pcs PMS-4000P-S　0pcs PMS-1778P-S　0pcs
Ex. 3			PMS-5400P-S　6pcs PMS-2540P-D　2pcs PMS-4000P-S　0pcs PMS-1778P-S　20pcs