	NARROW-PITCH RF CONNECTORS	
SPECIFICATIONS	AXG3B0612HF1	
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1. Name : Narrow-pitch RF Connectors		
2. Type : RF4 (Terminal spacing 0.35 mm 2 rows) Stacking h	eight 0.7 mm	
3. Part No.		
3-1) Part No. Socket : AXG3B0612HF1 Header : AXG4B0612HF1		
3-2) Product drawing Socket : AXG3B0612HF1 Header : AXG4B0612HF1		
Recommended metal mask opening pattern Socket : AXG3B-3 Header : AXG4B-3		
Package drawing Socket: AXG3B0612HF1H (Embossed packag Header: AXG4B0612HF1H (Embossed packag		
3-3) Ordering information		
AXG3B: RF4 socket AXG4B: RF4 header	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	
• Number of contacts (2 digits) 06: 6 contacts		
<ul> <li>Stacking height</li> <li><u>Socket</u></li> <li><u>1</u>: 0.7 mm</li> <li><u>1</u>: 0.7 mm</li> </ul>		
2 : Fixation		
•User's code HF		
• Special item 1		
4. Material : Molded portion : Heat resistant plastic (UL 94) : Contact / Post : Copper Alloy : Ground terminal: Copper Alloy	/-0), Black	
5. Plating : Contact / Post : Contact portion (Main) : Au platin : Terminal portion : Au platin	ng over nickel	
except folic Ground terminal : Au plating over nickel(except fo	or top of the terminal) r top of the terminal)	
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Panasonic Corporation Drawn by Panasonic Corporation Checked by Approved by		
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#### 6. Characteristics The followings show specifications, when mated with socket and header of the part No. in this spec sheet. It is out of guarantee for the mating with other part No. or copy product.

	It is out of guarantee for the mating with other part No. or copy product.						
	Item	Specification	Test condition				
	6-1. Electrical characteristics						
	1) Rated current	Contact / Post Max. 1.0 A/pin contact × 2 pin contacts and Max. 0.3 A/pin contact × 4 pin contacts					
		IF Contact / Post Max. 0.3 A/pin contact × 2 pin contacts					
	2) Rated voltage	30 V AC, DC					
	3) Insulation resistance	Min.1000 M $\Omega$ (Initial stage)	Using 250 V DC megger (1 minute)				
	4) Dielectric strength	150 V AC for 1 minute	Detection current : 1 mA				
	5) Contact resistance	Contact / Post	According to the method of JIS C 5402				
		Ground terminal Max. 90 mΩ	(Current: 1mA)				
	6) Frequency	DC to 15 GHz					
	7) Characteristic impedance	50 Ω					
	8) V.S.W.R (Voltage Standing Wave Ratio)	DC~3GHz : 1.2 Max. 3~6GHz : 1.4 Max. 6~15GHz : 1.5 Max.	Measurement condition: Shown on the 4/10 page.				
	6-2. Mechanical characteristics						
	1) Composite insertion force	Max. 60 N (Initial stage)					
	2) Composite removal force	Min. 5.0 N (Initial stage)					
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r	ICATIONS	AXG4B0612HF1		
Item	Specification	Page; 3 / 10 Test condition		
6-3. Environmental characteristics				
1) Ambient temperature (Operating temperature)	-55 ℃ ~ +85 ℃	Include the calorification from the connector. No icing or condensation		
2) Storage temperature	-55 ℃~+85 ℃ (Products only) -40 ℃~+50 ℃ (Packaging structure)	No icing or condensation		
3) Thermal shock resistance (Header and socket mated)	After 5 cycles Contact resistance Max. 90 m $\Omega$ (Contact/Post/ Ground terminal) Insulation resistance Min. 100 M $\Omega$	Conformed to MIL-STD-202F, method 107G         Temperature ( $^{\circ}$ C)         Order       Temperature ( $^{\circ}$ C)       Time (minutes)         1       -55 $^{\circ}_{-3}$ 30         2       5       Max. 5         3       85 $^{\circ}_{-3}$ 30         4       5       Max. 5         -55 $^{\circ}_{-3}$ -55 $^{\circ}_{-3}$ -55 $^{\circ}_{-3}$		
<ol> <li>Humidity resistance (Header and socket mated)</li> </ol>	After 120 hours Contact resistance Max. 90 m $\Omega$ (Contact/Post/ Ground terminal) Insulation resistance Min. 100 M $\Omega$	IEC60068-2-78 Bath temperature 40 ℃±2 ℃ Humidity 90RH % to 95 %RH		
5) Salt water spray resistance (Header and socket mated)	After 24 hours Contact resistance Max. 90 m $\Omega$ (Contact/Post/ Ground terminal) Insulation resistance Min. 100 M $\Omega$	IEC60068-2-11 Bath temperature 35 $^{\circ}C\pm 2 ^{\circ}C$ Salt water concentration : 5 %±1 9		
6) H₂S resistance (Header and socket mated)	After 48 hours Contact resistance Max. 90 mΩ(Contact/Post/ Ground terminal)	Bath temperature 40 °C±2 °C Gas concentration 3 ppm±1 ppm Humidity 75RH % to 80 %RH		
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Item	Specification	Test condition		
6-4. Life characteristics Insertion and removal life with no load	10 times Contact resistance Max. 90 mΩ(Contact/Post/ Ground terminal) Composite removal force Min. 5.0 N	Repeated insertion and removal cycles of max. 200 times/hour		
6-5. Soldering temperature resistance	The initial specification must be satisfied electrically and mechanically	Max. peak temperature of 260 °C Infrared reflow soldering (PC board surface temperature near connector terminals		
6-6. Solder paste thickness	The initial specification must be satisfied electrically and mechanically	Recommendation t=0.08 mm		
Measurement condition (G-1.8 V.S.W.R.)         Measure the V.S.W.R. with a vector network analyzer as shown below.         Remove the characteristics of the measurement fixture from the measurement results.         Image: the description of the teacher of the measurement fixture from the measurement results.         Image: teacher of te				
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- 7. Package : Embossed packaging
- 8. Precaution for use

Please use our products in the conditions described in our specification sheets. Panasonic Corporation does not guarantee the failures caused by the usage in the conditions beyond the specifications.

- 9. Remarks
  - 9-1. Regarding PC board design

Refer to the recommended PC board pattern for keeping the strength of soldering.

9-2. Connector placement

In case of dry condition, please note the occurrence of static electricity. The product may be adhered to the embossed carrier tape or the cover tape in dry condition. Recommended humidity is from 40%RH to 60%RH and please remove static electricity by ionizer in manufacturing process.

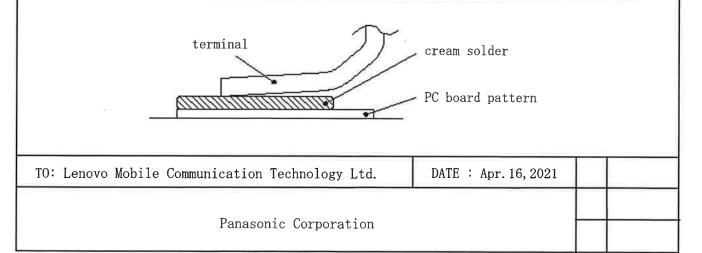
9-3. Soldering

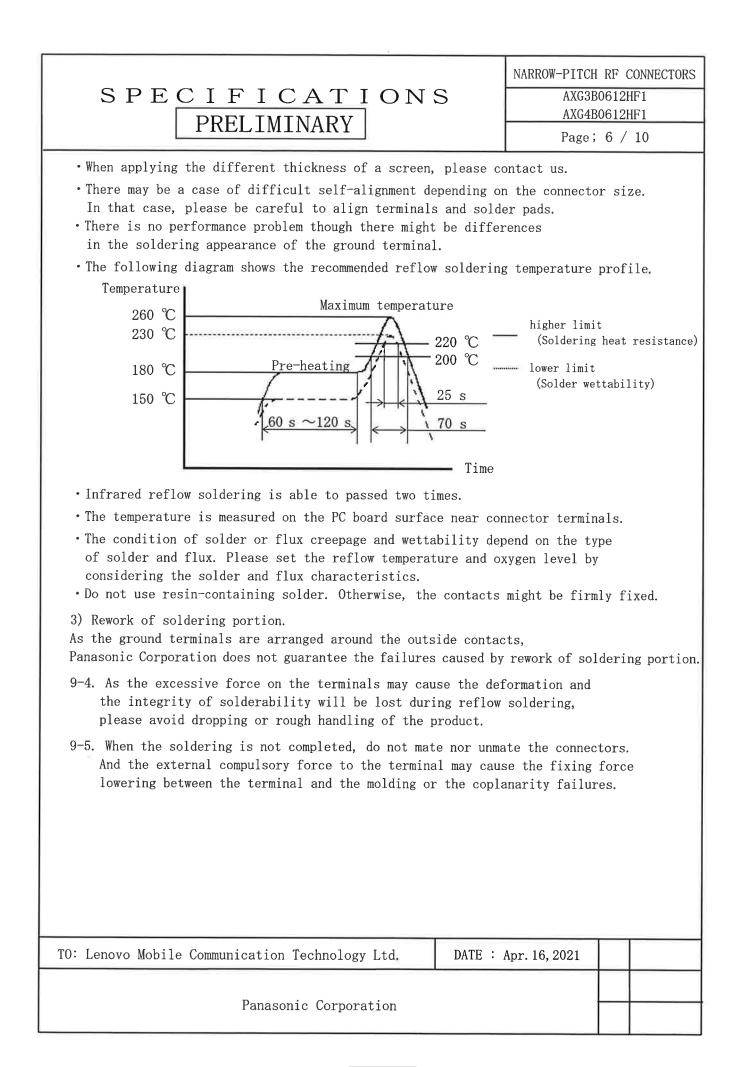
1) Manual soldering.

As the ground terminals are arranged around the outside contacts, Panasonic Corporation does not guarantee the failures caused by manual soldering. The soldering iron interference may cause deformation or damage of contacts and molding.

2) Reflow soldering.

- When cream solder printing is used, screen method is recommended.
- The relation between the screen opening area and PC board foot pattern area should be referred to "Recommended PC board pattern" drawings and "Recommended metal mask pattern" drawings.
- Especially your consideration is appreciated not to expand the dimensions of the PC board pattern and the metal mask at the root part of terminals.
- Please avoid the excessive solder. Because the excessive solder makes incomplete mating by soldering interference.



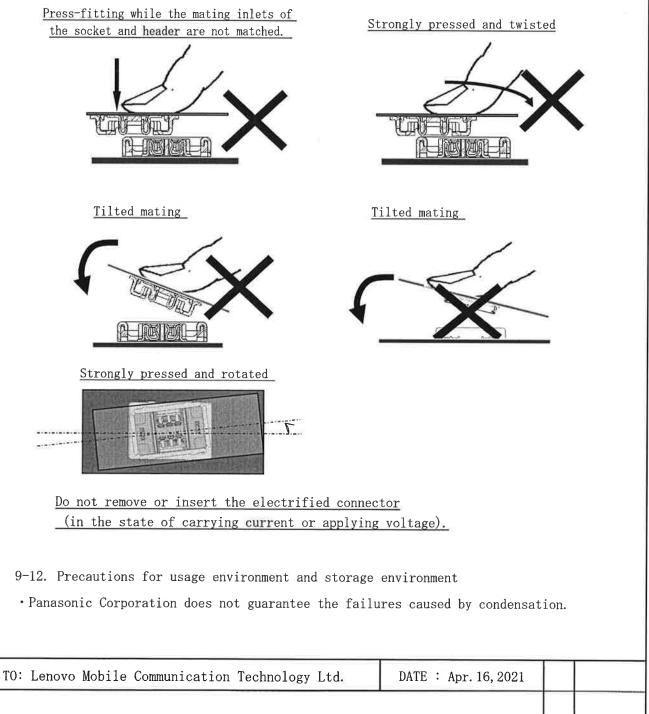


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9-6. When cutting the PC board after mounting the co the soldering portion.	nnector, pleas			
No stress here				
		]		
9-7. PC board				
As thick coverlay / solder resist and adhesive may thickness of coverlay and adhesive as thin as poss		ldering, pl	.ease set	
9-8. When mounting connectors on a FPC board :				
<ul> <li>When the connector soldered to FPC is mated or unmoccur by the force to the terminals. Connector has condition when the reinforcing plate is attached to connector is mounted. The external dimension of the recommended to be larger than the dimension of "PC process pattern" (extended dimension of one side is</li> <li>As this connector has temporary locking structure, separated by the dropping impact depend on the siz Please consider the measures at usage to prevent to the set of the</li></ul>	dling is recom to the backside e reinforcing p board recomme s approximatel the connector e, weight or be	nended in t of FPC whe blate is nded y 0.5~1.0m mating may nding force	the ere the m).	
9-9. Cleaning treatment				
Cleaning this product is not needed basically. Please note the following points to prevent the ne when cleaning is necessary.	gative effect	to the prod	luct	
<ul> <li>Please keep the cleanliness of the cleaning fluid to make sure that the contact surfaces are not contaminated by the cleaning fluid itself.</li> </ul>				
<ul> <li>Semi-aqueous cleaning solvent is recommended as some powerful solvent may dissolve the molding portion or the marked letters.</li> <li>Please contact us when other solvent is used.</li> </ul>				
9-10. Restriction on the quantity of connector				
When using the board to board connectors, a pair of with multiple connectors. Otherwise, misaligened of cause mating failure or product breakage. Panasonic corporation does not guarantee the failu the multiple connectors.	onnector posit:	ions may	lected	
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#### 9-11. Precautions for mating

Our products are symmetrical structure. Please avoid reverse insertion of connector. Inserting a connector in a circuit direction opposite to that you intended may cause circuitry damage via abnormal heating, smoke, and fire. This product is designed with ease of handling. However, in order to prevent the deformation or damage of contacts and molding, do not mate the connectors as shown below.



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9-13. Other precautions

When the coating material is used for preventing PC board isolation deterioration after soldering, please assure the coating material is not adhered on any part of connector.
Please avoid the usage of connector as electric switching basically.

1 O. About safety Remarks

Observe the following safety precautions to prevent accidents and injuries.

10-1. Do not use these connectors beyond the specification sheets. The usage outside of specified rated current, dielectric strength, and environmental conditions and so on may cause circuitry damage via abnormal heating, smoke, and fire.

10-2. In order to avoid accidents, your thorough specification review is appreciated. Please contact us if your usage is out of the specifications. Otherwise, Panasonic Corporation cannot guarantee the quality and reliability.

10-3. This product is designed to have capacity to carry high current when mated with socket and header of the part No. in this spec sheet. It is out of guarantee for the mating with other part No. or copy product.

10-4. Panasonic Corporation is consistently striving to improve quality and reliability. However, the fact remains that electrical components and devices generally cause failures at a given statistical probability. Furthermore, their durability varies with use environments or use conditions. In this respect, please check for actual electrical components and devices under actual conditions before use. Continued usage in a state of degraded condition may cause the deteriorated insulation, thus result in abnormal heat, smoke or firing. Please carry out safety design and periodic maintenance including redundancy design, design for fire spread prevention, and design for malfunction prevention so that no accidents resulting in injury or death, fire accidents, or social damage will be caused as a result of failure of the products or ending life of the products.

11. Environmental protection;

Our products comply with RoHS Directive at the date of this specification issued.

12. Product appearance

There is no performance problem though there might be differences in appearance other than the contact part of the metal part, because of a manufacturing method.

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#### 13. Warranty

Although the best attention will be paid for the quality controls of the products, please consider the followings :

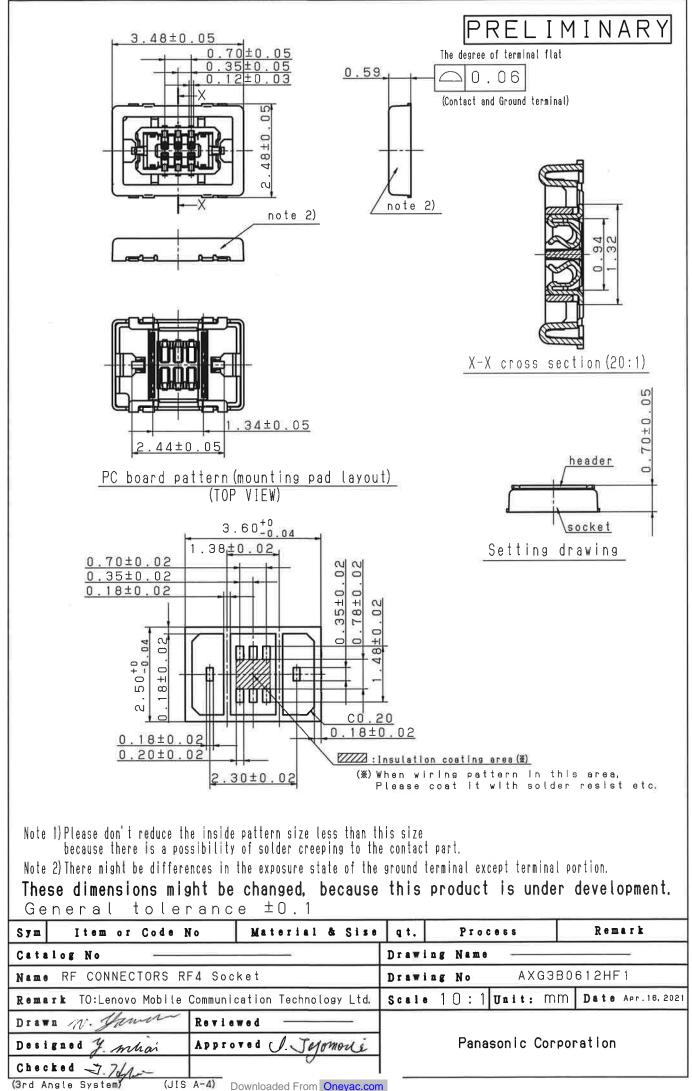
- To avoid uses of the product not in accordance with its specifications, Panasonic Corporation asks the purchaser to present the purchaser's specification, the final destination, application of the final product and the method of installation of the product.
- 2) Please adopt the dual circuit (protection or redundant circuit) and conduct safety test when the connector is used under the following condition.
  - -When the significant damage to life and property are expected.

-When the relay is used in instruments required high safety.

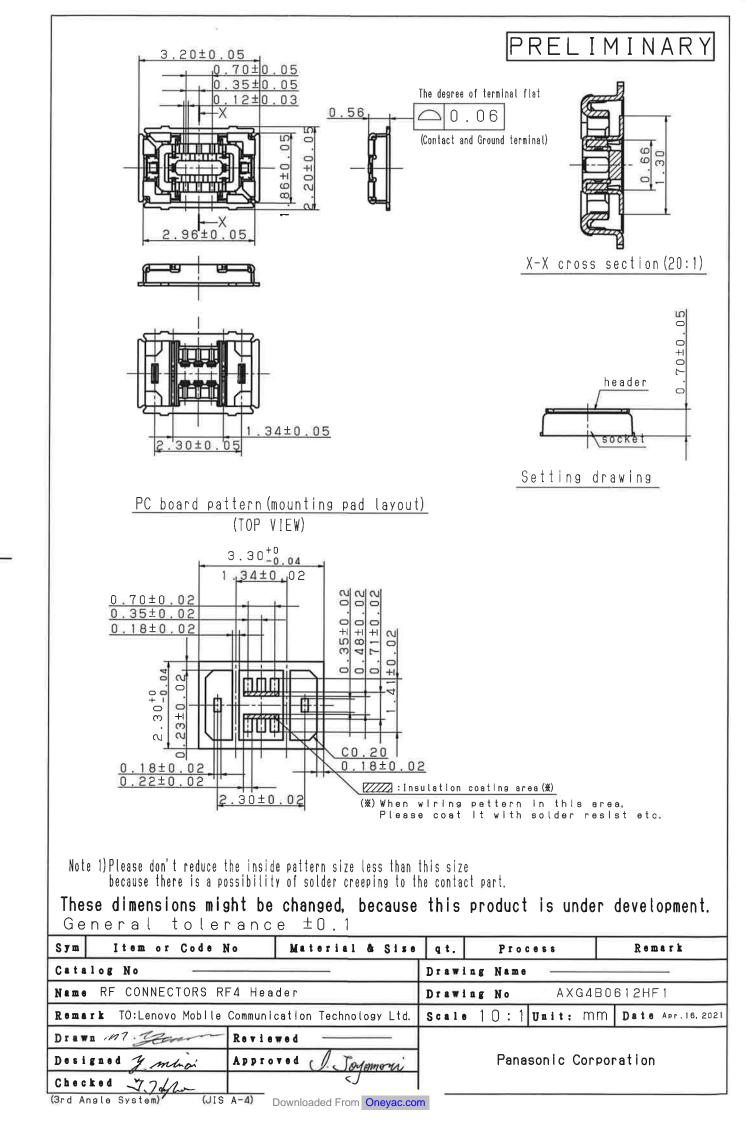
The secondary damage such as health damage of equipment users, caused by the failure of our products, is not compensated.

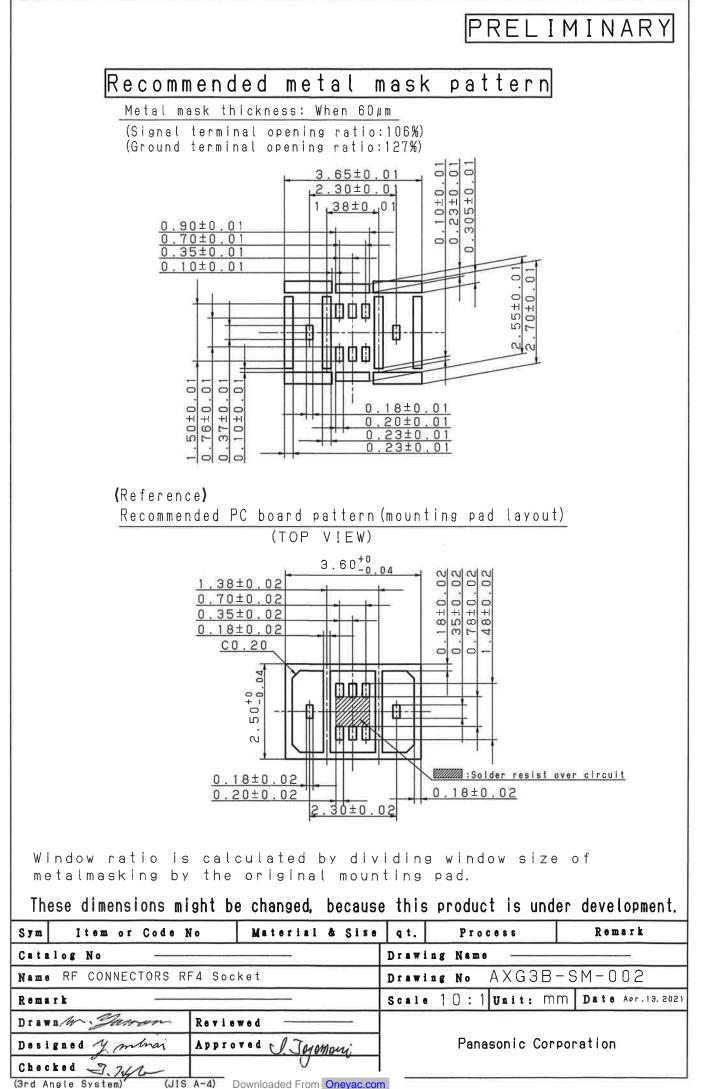
- 3) Panasonic Corporation will either repair or replace any products or parts thereof after mutual consultation if it is proven to be defective against only the items written in this specifications within one year from the date of products acceptance at the site of delivery unless another contract defined each other. The following are excluded from the warranty condition.
- ① Any consequential damages or loss of profits is resulted from malfunctions or defects of the product.
- ② The products are affected by the situation out of the specification at handling, the storage and the transport, etc. after the delivery.
- ③ An unforeseen situation arises which was unable to be predicted technically at the time of shipment
- ④ A natural or man-made disaster which is beyond Panasonic Corporation's control occurs such as earthquake, flood, fire or social strife.

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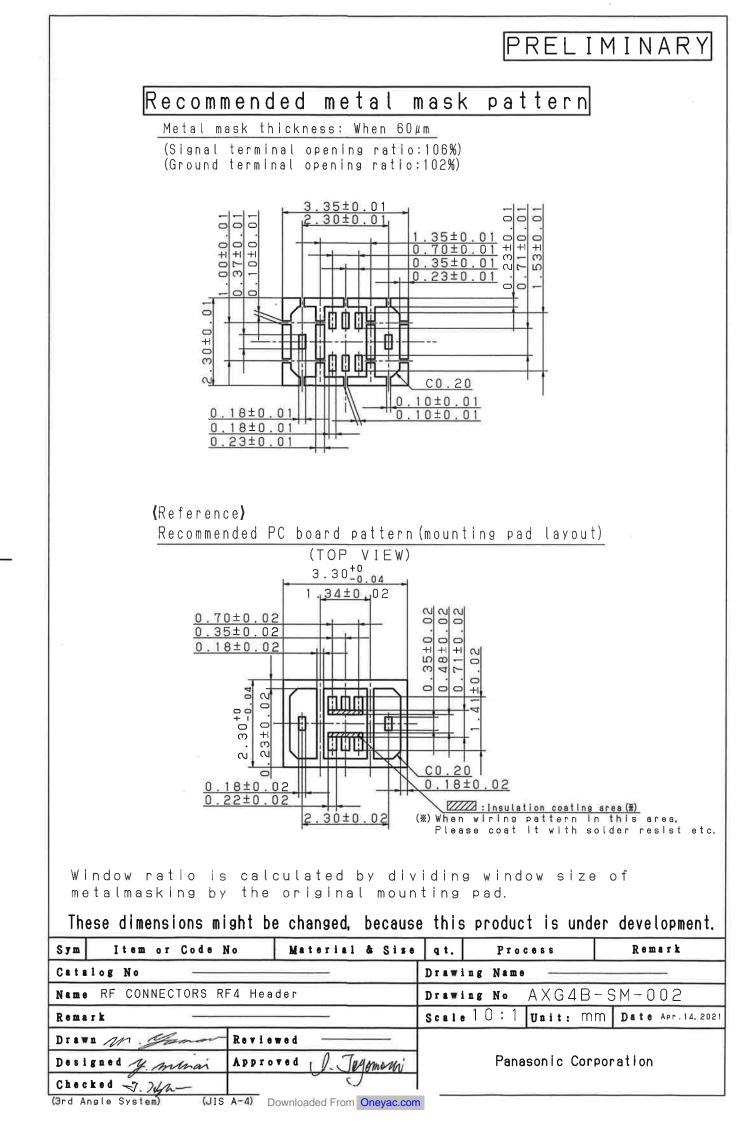


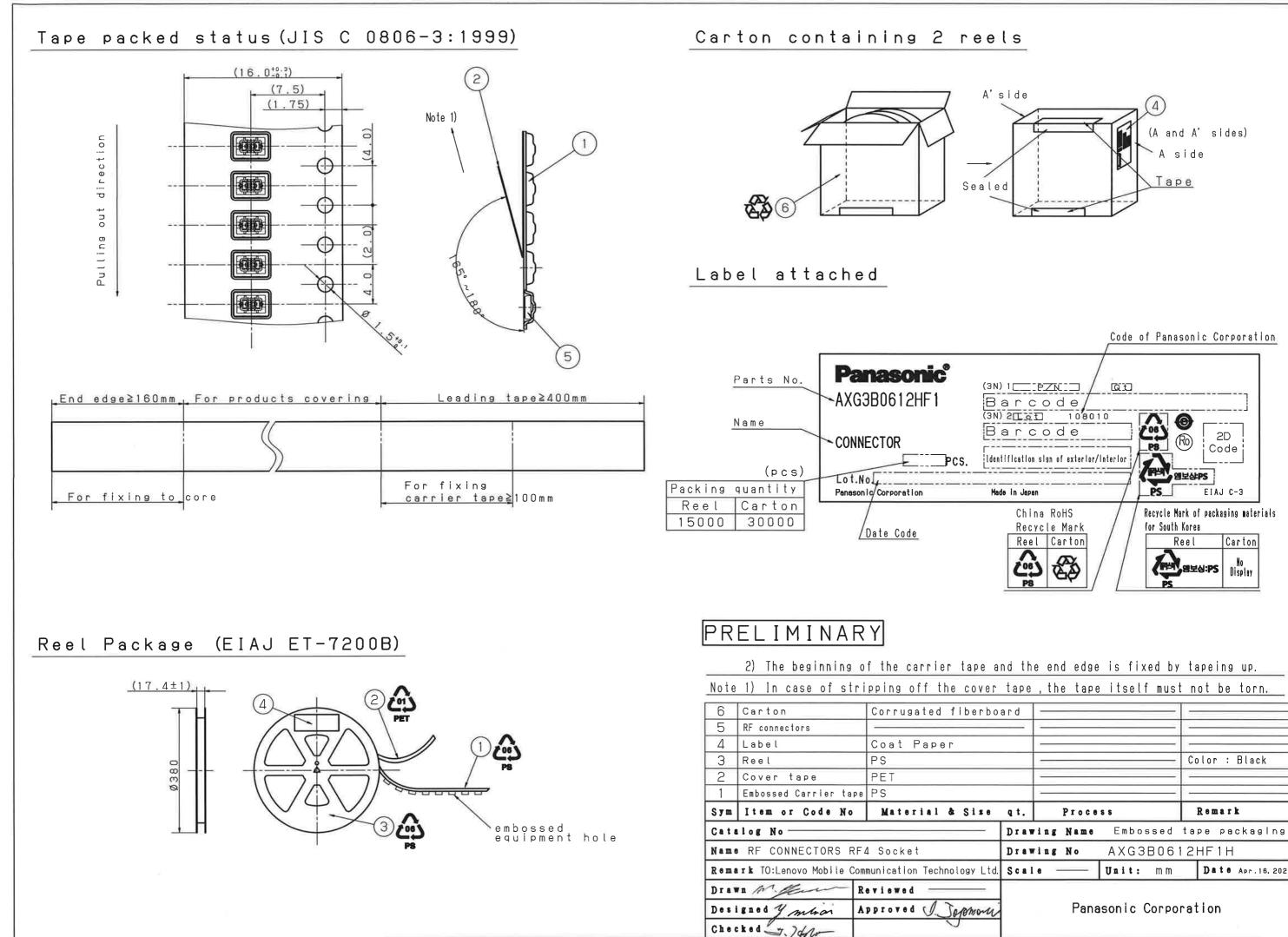
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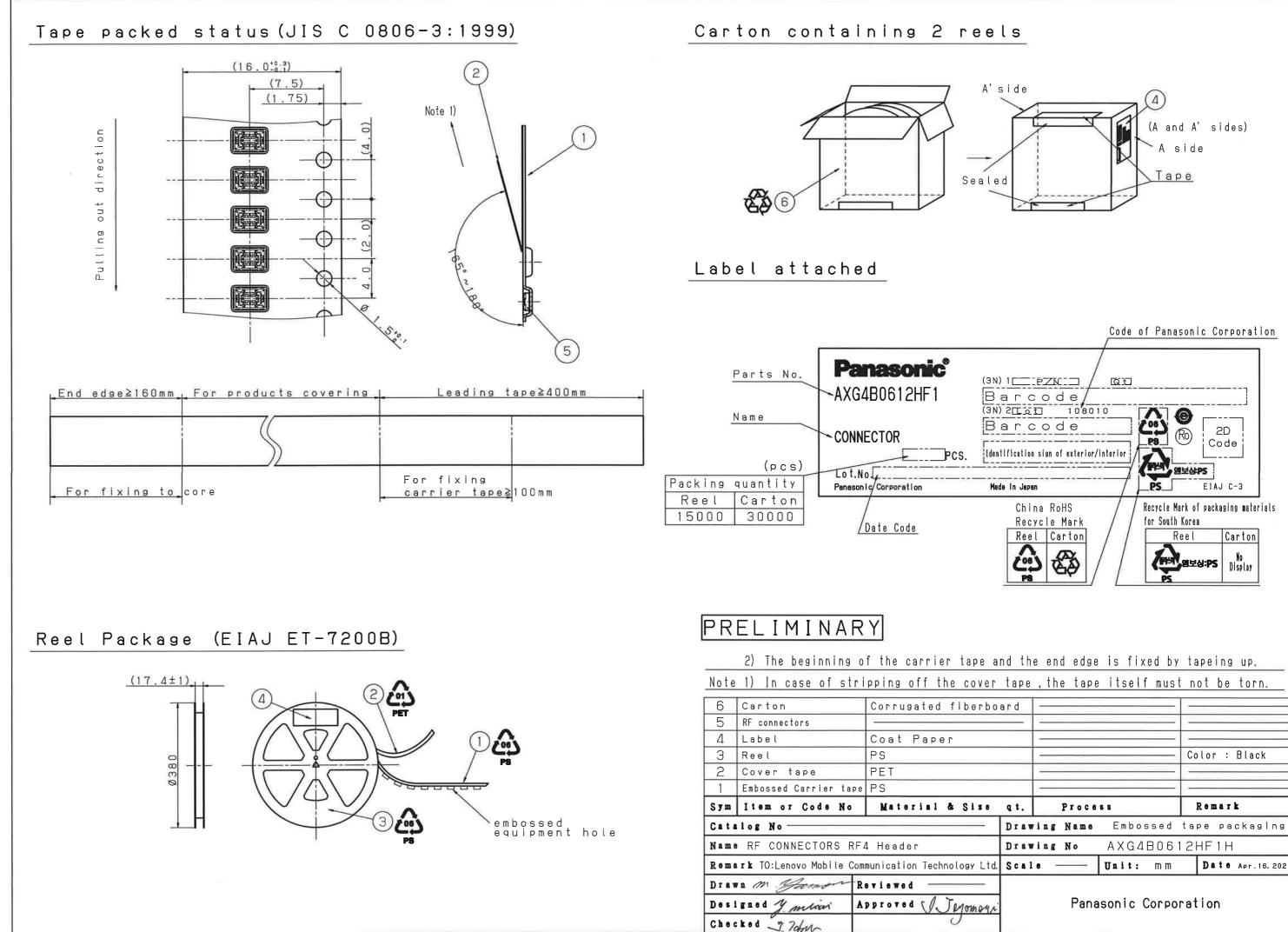


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