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CSTG-14590

To: MELCO Low Noise Customers

**Subject: Packaging PCN items
for Mitsubishi LN products**

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mitsubishi ELECTRIC CORPORATION

High Frequency and Optical Device Works

High Frequency Device Dept.

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MITSUBISHI ELECTRIC CORPORATION

This PCN is to announce wrapping / packing style changes for LN-HEMT products in order to comply with MELCO eco standards.

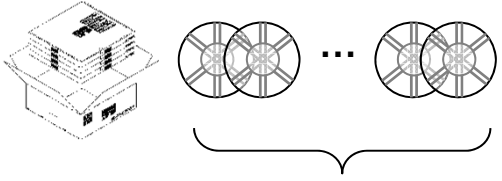
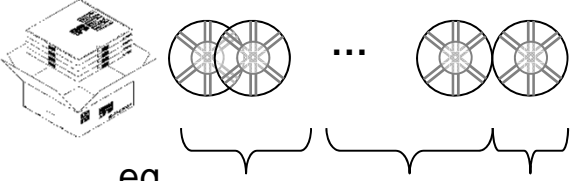
All changes don't affect the device performance and production in customer's line.

Your kind approval for below items by E/June would be much appreciated.

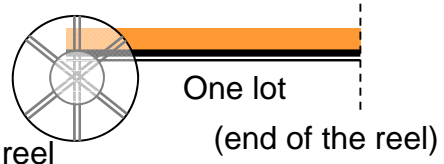
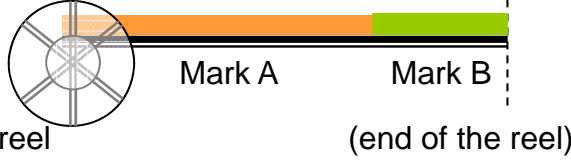
	Item	product type	Detail	Target applying date
[1]	Multi-lots in one outer box	4PF	p.3	from July / '12
[2]	Different marked devices in one reel		p.3	
[3]	Barcode label on reel	MLCP & Plastic cavity	p.4	
[4]	No inner box & New moisture proof bag	4PF	p.5	
[5]	Two reels in one moisture proof bag		p.6	

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[1] ***Multi-lots in one outer box*** [for 4PF products (MGF493xx series)]

Present	New	Change point
 <p>All reels are in the same lot</p>	 <p>eg. lot A lot B lot C</p>	<ul style="list-style-type: none"> ✓ Max. lot number can be the same as reel number in one outer box. ✓ Only 1 representative lot name can be printed on outer box.

[2] ***Different marked devices in one reel*** [for 4PF products (MGF493xx series)]

Present	New	Change point
 <p>One lot (end of the reel)</p> <p>One lot in one reel</p>	 <p>Mark A Mark B (end of the reel)</p> <p>2 marked lots in one reel</p>	<ul style="list-style-type: none"> ✓ More than 2 marked lots in one reel is prohibited. ✓ Only 1 representative lot name can be printed on the bag.

- ✓ *We can trace back the lot number in our production record also after these change have been introduced.*
- ✓ *These change is only for packaging. The device performance and assembling manner in customer's line will not be changed.*

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[3] Barcode label on reel

for MLCP & Plastic cavity package in 330φ reel
[majorly MGF4953A, 53B, MGF4941AL, 63BL, 64BL]

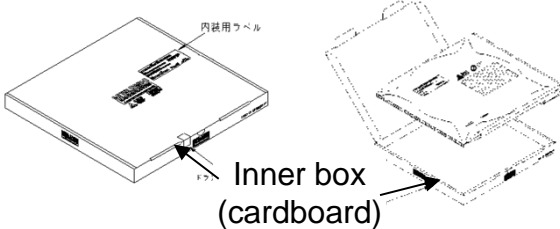
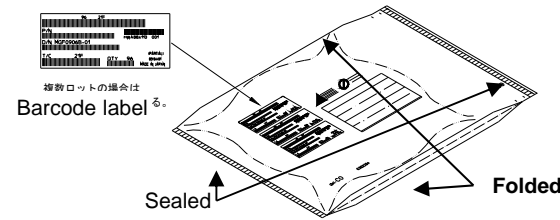

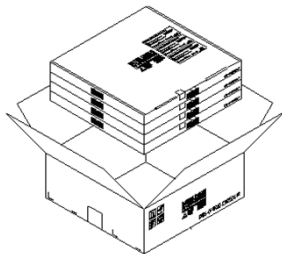
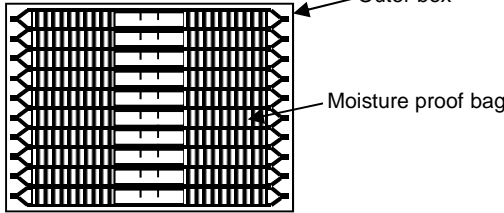


Present	New	Change point												
<table border="1" data-bbox="220 781 598 1073"> <tr><td>TYPE</td><td></td></tr> <tr><td>SPEC</td><td></td></tr> <tr><td>LOT.</td><td></td></tr> <tr><td>QTY.</td><td></td></tr> <tr><td>DATE</td><td></td></tr> <tr><td></td><td></td></tr> </table> <p>MITSUBISHI</p> <p>Spec is written by stamp</p>	TYPE		SPEC		LOT.		QTY.		DATE				 <p>Same as label on the bag and inner box</p>	<p>✓ For 4PF products, barcode label is already printed also on its reel.</p>
TYPE														
SPEC														
LOT.														
QTY.														
DATE														

✓ These change is only for labeling. The device performance and assembly in customer's line is not affected.

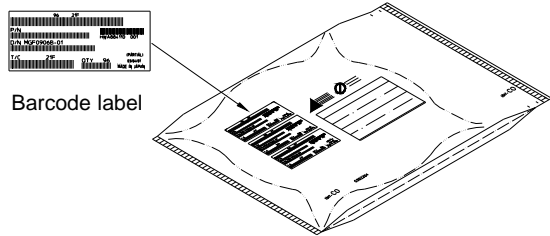
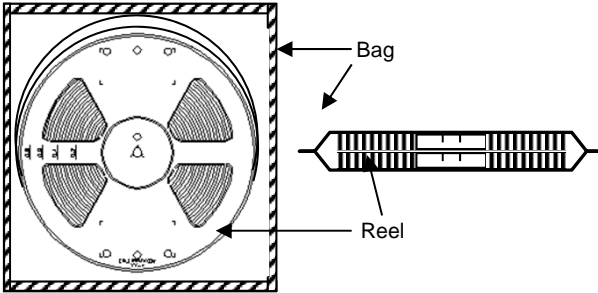
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[4] No inner box & New moisture proof bag [for 4PF products (MGF493xx series)]

	Present	New	Change point
Inner box	 <p>Inner box (cardboard)</p>	No inner box	✓ Delete inner box
Moisture proof bag	 <p>Barcode label</p> <p>Sealed</p> <p>Folded</p>	 <p>Sealed at every 4 side</p>	✓ Side sealing manner (2 side → every 4 side)
Outer box		<p>[Cross section of outer box]</p>  <p>Outer box</p> <p>Moisture proof bag</p>	✓ Max. reel number in one outer box is increased. 6 reels → 13 reels 4 reels → 8 reels

- ✓ No performance change for moisture proof and ESD robustness with this change.
- ✓ These change is only for packaging. The device performance and assembly in customer's line is not affected.

[5] *Two reels in one moisture proof bag* [for 4PF products (MGF493xx series)]

Present	New	Change point
 <p>Barcode label</p> <p>One reel per one bag</p>	 <p>Bag</p> <p>Reel</p> <p>Two reels per one bag</p>	<p>✓ No performance change for moisture proof and ESD robustness with this change.</p>

- ✓ *No performance change for moisture proof and ESD robustness with this change.*
- ✓ *These change is only for packaging. The device performance and assembly in customer's line is not affected.*