

Classification	Manufacturing Specification	Customer Part Number	PAN1783, PAN1783A	Version	8
Subject	Packing and Labelling Definition	Panasonic Part Number	ENW89860A1KF, ENW89860C1KF	Date	2024-12-02 17:31:30.0

MS-PL-PAN1783

Preparation

History for this Document

Version	Date	Author	Comment
8	02-Dec-2024 17:31	Raoul Fofe (70M6671)	Added UK logo on regulation marking label
7	03-Nov-2023 15:48	Ulf Heinrichs (7870797)	Correct mistake in the document header, add chapter "Regulation Marking Label Definition"
6	24-Oct-2023 06:59	Jozef Kacmarsky (7047538)	Modified Module Laser Marking Description table
5	18-Sep-2023 16:23	Ulf Heinrichs (7870797)	Change brand name of bottom-pad version from 1773 to 1783A
4	31-Mar-2023 12:52	Anonymous	Reverted from v. 2
3	31-Mar-2023 11:06	Anonymous	Correct mistake (PAN1780 -> PAN1783), clarify MAC-address, rearrange drawings
2	18-Jan-2023 17:25	Ulf Heinrichs (7870797)	Correct mistake (PAN1780 -> PAN1783), clarify MAC-address, rearrange drawings
1	11-Jan-2023 16:54	Ulf Heinrichs (7870797)	Initial Document

Scope of this Document

This manufacturing specification for the packing and labeling process at the production side applies to following BLE 5.0 Modules:

ENW	PAN	Temperature	Region	RF output
ENW89860A1KF	PAN1783	-40°C +85°C	EU/US/CA/tbd	Antenna
ENW89860C1KF	PAN1783A	-40°C +85°C	EU/US/CA/tbd	Bottom-pad

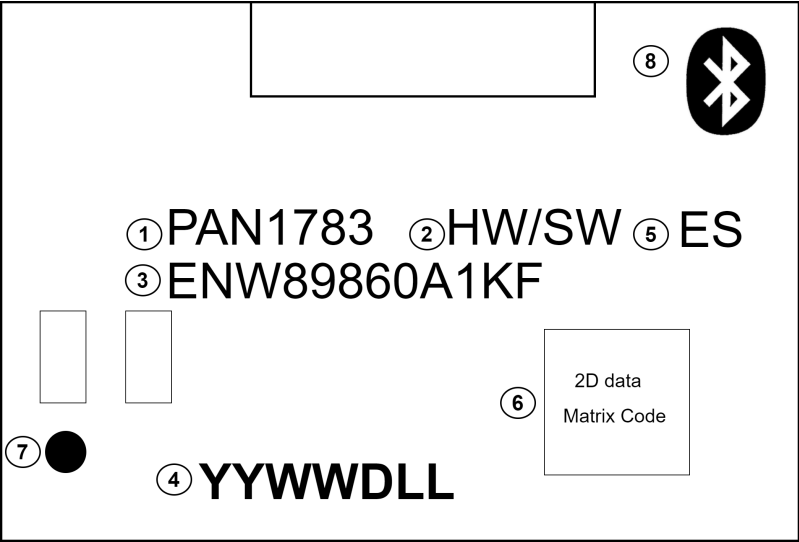
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Case Marking

This is made by a laser.



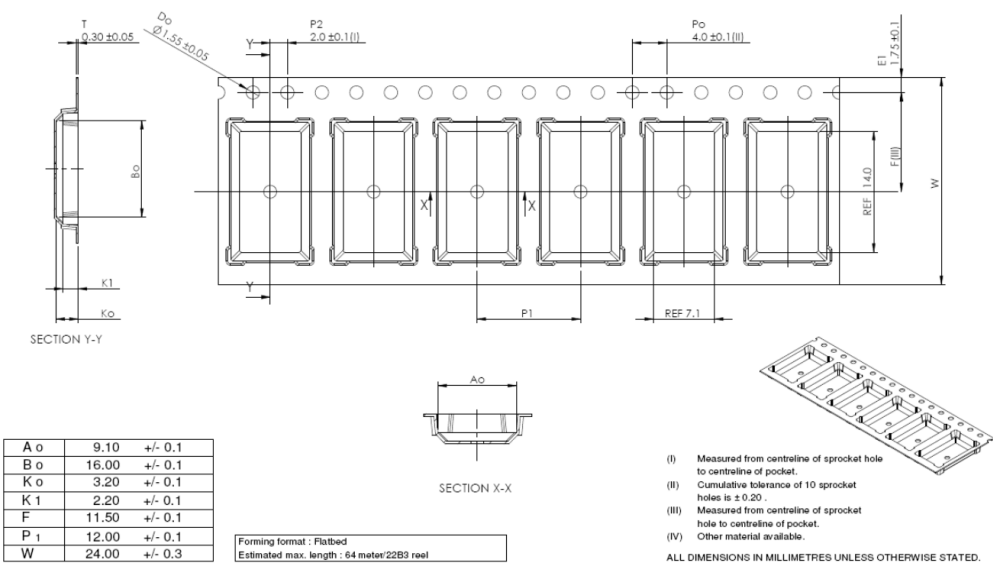
Module Laser Marking Description

		Cover laser content		
No.	Item	ENW89860A1KF	ENW89860C1KF	Description / comment
1	Series (Brand)	PAN1783	PAN1783A	
2	HW/SW Version	HW/SW		HW - Major Hardware Version, refer to MS-CS-PAN1783 document SW - Major Software Version, refer to MS-AI-PAN1783 document
3	ENW-No. / Model Name	ENW89860A1KF	ENW89860C1KF	
4	Lotcode	YYWWDLL		YY - Year WW - Calendar Week D - Day of Week (e.g. Friday is 5) L - Line (e.g. 2) L - Lot per day (e.g. 1)
5	ES Marking	ES		Need to be mentioned during ES status (remove ES for MP) Necessity of ES marking has to be also be required in the ECN. Otherwise keep empty
6	2D Data Matrix Code	"See picture above"		Contains in total 30 characters, seperated by a semicolon: YYWWDLL;HHHHHHHH;XXXXXX;HW;SW YYWWDLL Lotcode (see Item 4) HHHHHHHH Last eight digits from hexadecimal Panasonic Mac Address (example: E6ABCDEF) XXXXXX 89860A1 for ENW89860A1KF 89860C1 for ENW89860C1KF HW Minor Hardware version, refer to MS-CS-PAN1783 SW Minor Software Version, refer to MS-AI-PAN1783
7	Pin 1 Mark on Top Side	•		Fix, no change at all
8	Bluetooth logo			

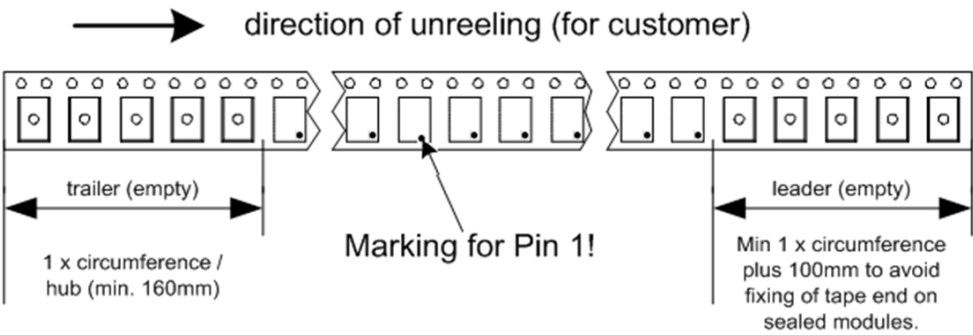
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Packing

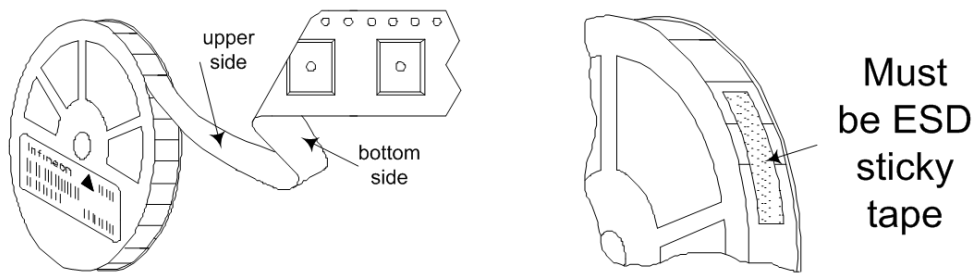
Tape Definition



Packaging in Tape



Tape Orientation on Reel and fixing of tape end



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Machine Settings for T&R

Each new setting for a specific module could be stored and activated.

The settings will be optimized to reach a good measurement result.

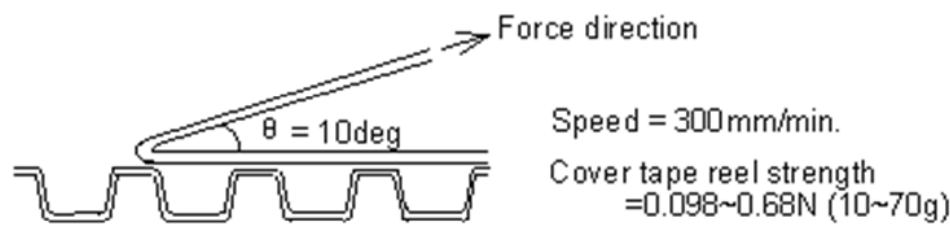
The machine keeper has to follow the working instruction.

Machine Settings for Vacuum Machine

The machine keeper has to follow the working instruction, which shows also a good and a bad picture example.

According to the best outcome, it could be necessary to adapt the machine settings manually.

Peel force Definition



- Speed 300mm/min
- Force direction 10° between cover tape and tape
- Cover tape peel strength 0.098 ~0.68N (10~70g)

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Regulation Marking Label Definition

ENW89860A1KF / PAN1783

Panasonic ENW89860A1KF

PAN1783

CE

UK

CA

FCC ID: T7V1783

IC: 216Q-1783



Importer in the UK: Panasonic Industry Europe GmbH UK Branch, Maxis 2, Western Road, Bracknell, Berkshire, RG12 1RT

ENW89860C1KF / PAN1783A

Panasonic ENW89860C1KF

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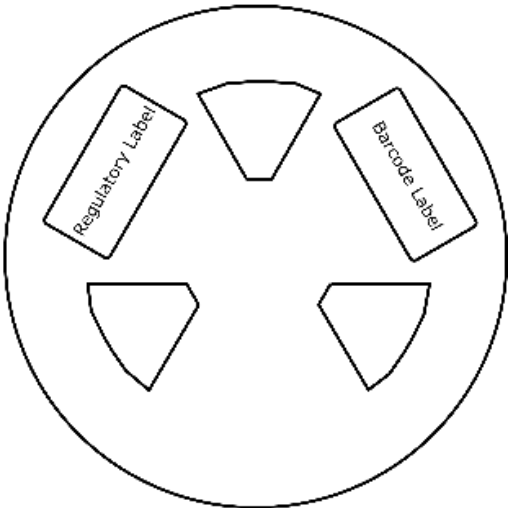
- Use the same raw-label as for barcode label
- CE mark height > 5mm
- UKCA mark height > 5mm

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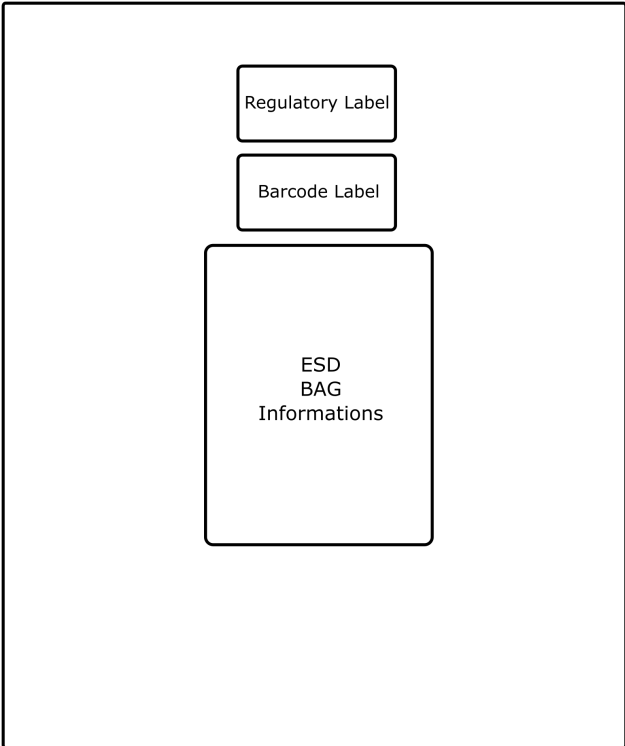
Label Placement

The label must be attached in three places. Namely on reel, barrier bag, and inner carton box.
The specification for the size of the barcode label is 105mm x 51mm.

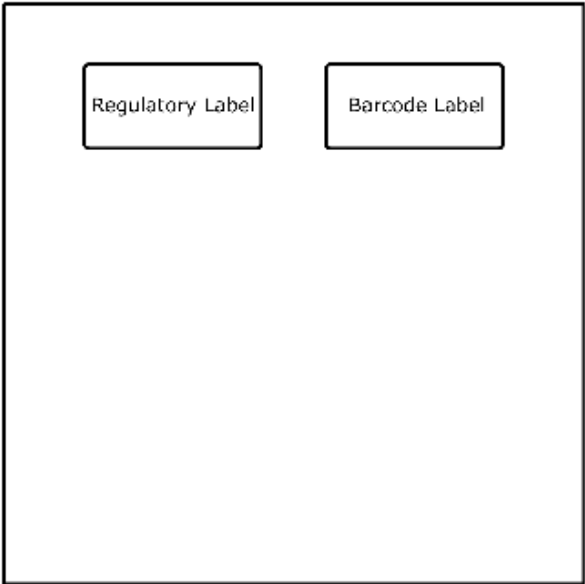
Reel



Barrier Bag

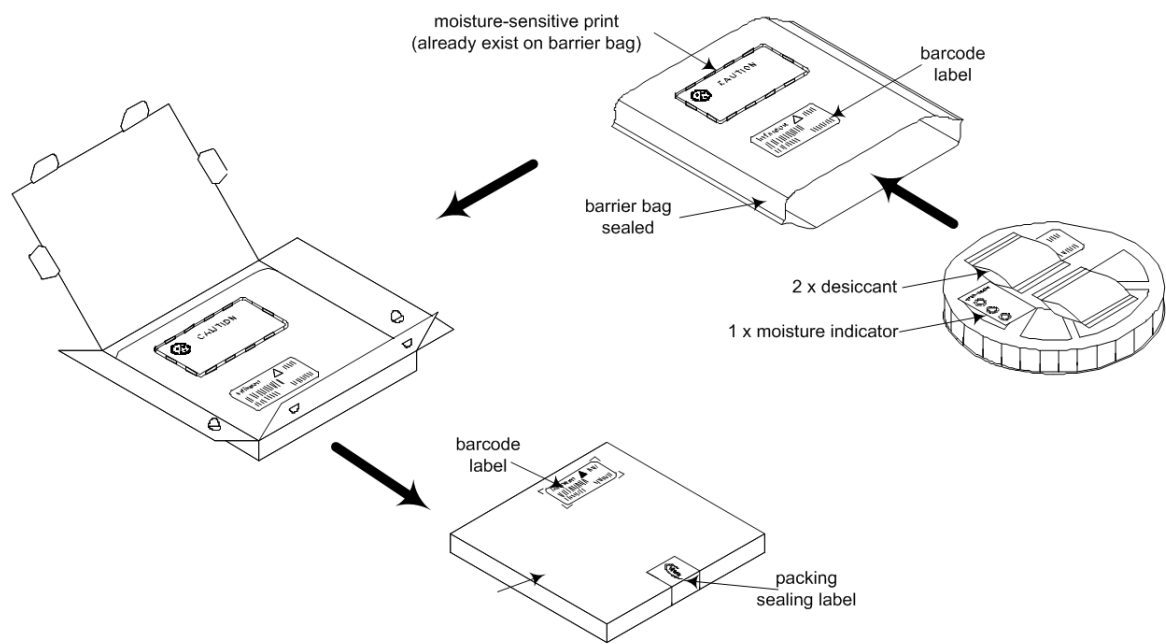


Inner Carton Box



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Total Packing Handling



Parts List for Packing and Labelling

No.	Type	SAP No.	Supplier No.	Supplier
1	PLASTIC REEL 13"/ 24mm / 4" hub	A2U00077143	K04222	K-TECH HF
2	LABEL BARCODE 105x51 MATERIAL PAPIER	AM1310A43D	no	Gruhl & Co. KG
3	PACK-CARTON CONTAINER 340x340x41 (Inner Box)	CARTON-TYPE2	K00101	K-TECH HF
4	PACK-CARTON CONTAINER 360x360x200 (Outer Box)	CARTON-TYPE10	FK0201	Siscor GmbH & Co KG
5	PACK PLASTIC COVER TAPE 21mm	CP33A-210A-L500	K01086	K-TECH HF
6	PACK PLASTIC CARRIER TAPE L64W24 PITCH12	CT2796		K-TECH HF
7	PACK PLASTIC MOISTURE BAG-420x500mm	DY3008-033S	K05122	K-TECH HF
8	PACKING HUMIDITY INDICATOR 5/10/60%	HIC51060	200005295	SÜD-CHEMIE
9	PACKING DESICCANT	DESI-PAK	B004504	SÜD-CHEMIE
10	PROTECTIVE BAND Z100W24L1.1	K01503		K-TECH ELECTRONIC