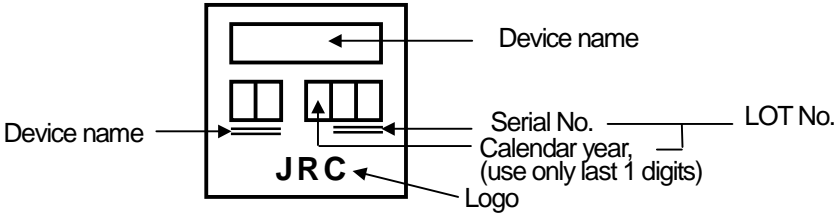
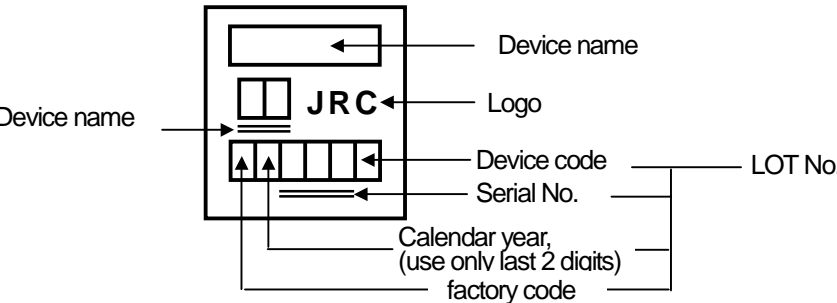
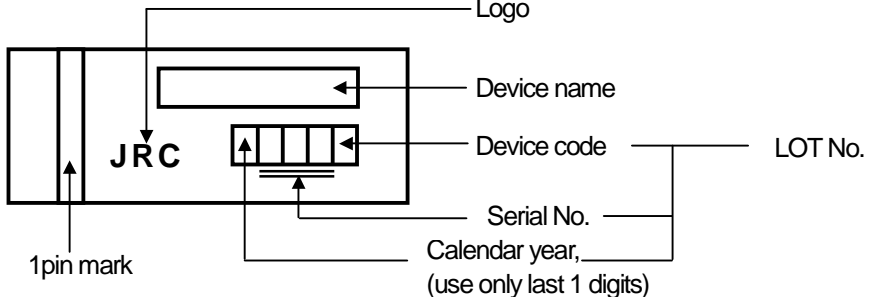
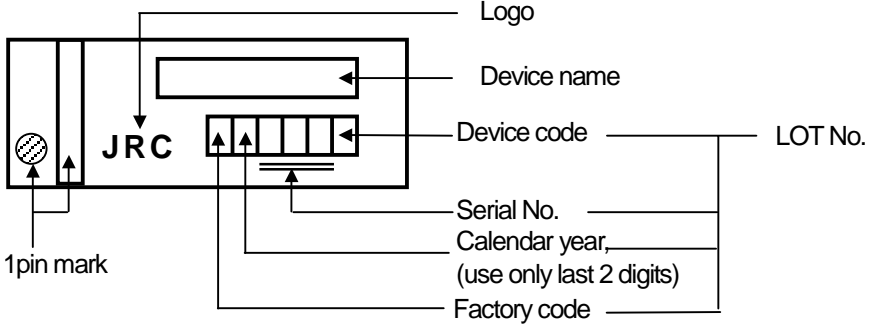


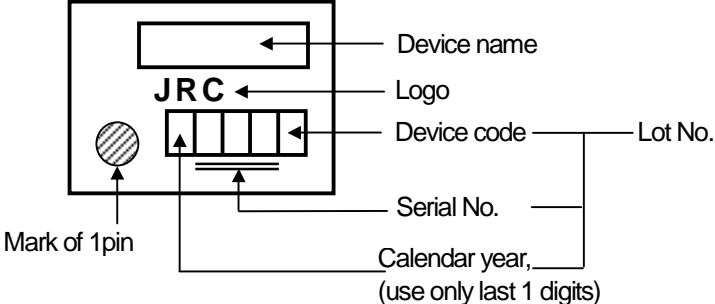
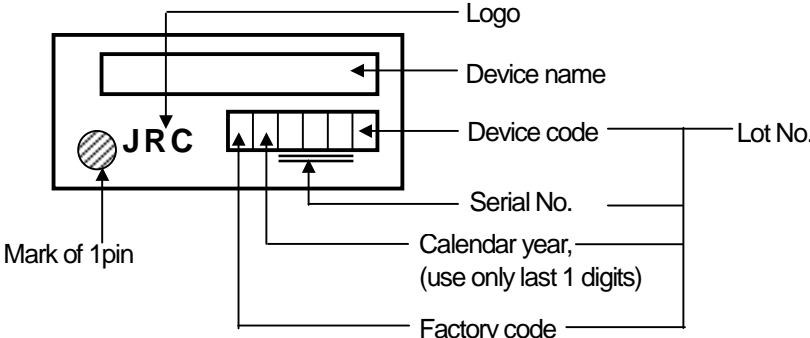
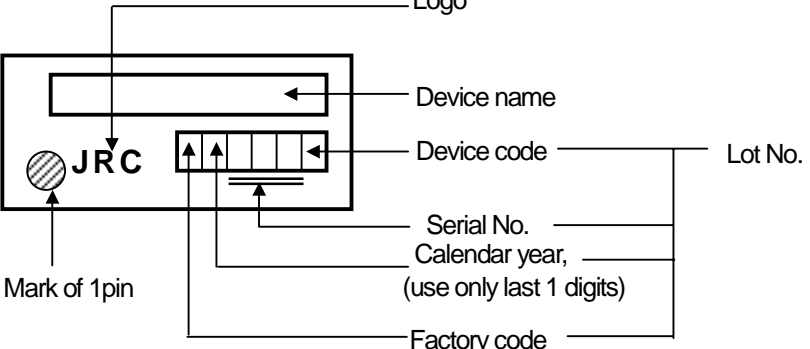
The standard mark layout of our packages are as follows.
 For further information, please contact to our sales offices.

<Lead Insertion Type>

Name	Number of pins	Mark Layout
TO-92	3	 <p>Diagram showing the mark layout for TO-92 packages. The package is a small triangle with three pins. The top edge contains a rectangular box for the Device name. The bottom edge contains a small square for the JRC Logo, followed by a box for the Calendar year (use only last 1 digit), and a box for the Serial No. (use only last 1 digit). The Serial No. and Calendar year boxes are grouped together as the LOT No.</p>
TO-220	3, 4, 5	 <p>Diagram showing the mark layout for TO-220 packages. The package is a trapezoid with four or five pins. The top edge contains a rectangular box for the Device name. The bottom edge contains a small square for the JRC Logo, followed by a box for the Device code, a box for the Calendar year (use only last 2 digits), and a box for the Serial No. The Device code, Calendar year, and Serial No. boxes are grouped together as the LOT No.</p>
SIP	8	 <p>Diagram showing the mark layout for SIP packages. The package is a rectangle with eight pins. The top edge contains a rectangular box for the Device name. The bottom edge contains a small square for the JRC Logo, followed by a box for the Device code, a box for the Calendar year (use only last 1 digit), and a box for the Serial No. The Device code, Calendar year, and Serial No. boxes are grouped together as the LOT No. A 1-pin mark is indicated on the left side.</p>
ZIP	16	 <p>Diagram showing the mark layout for ZIP packages. The package is a rectangle with sixteen pins. The top edge contains a rectangular box for the Device name. The bottom edge contains a small square for the JRC Logo, followed by a box for the Device code, a box for the Calendar year (use only last 2 digits), and a box for the Factory code. The Device code, Calendar year, and Factory code boxes are grouped together as the LOT No. A 1-pin mark is indicated on the left side.</p>

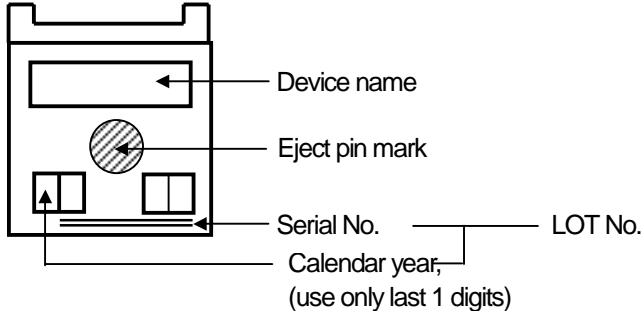
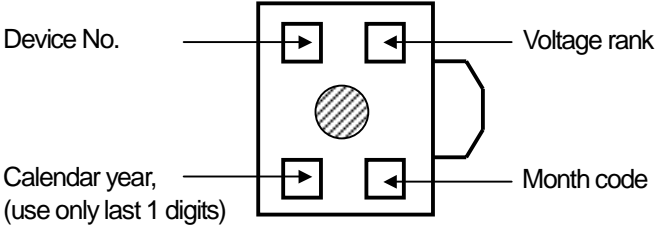
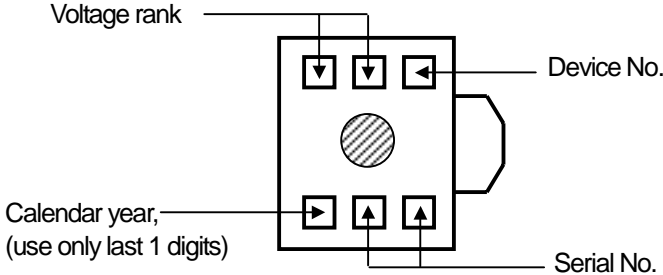
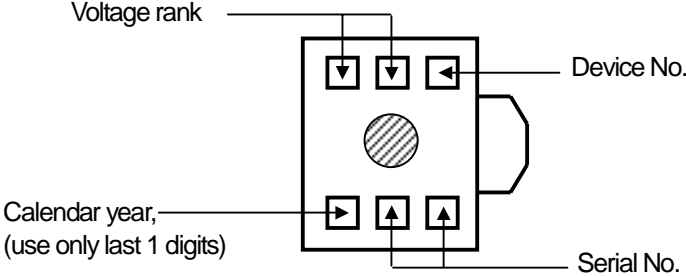
Standard Mark Layout

<Lead Insertion Type>

Name	Number of pins	Mark Layout
	8	 <p>Diagram showing the mark layout for an 8-pin DIP package. The package is a rectangular chip with a shaded circle on the left side labeled 'Mark of 1pin'. The top surface contains a 'Device name' box, the 'JRC' logo, a 'Device code' box, and a 'Serial No.' box. The 'Device code' and 'Serial No.' boxes are grouped under 'Lot No.'. Below the 'Serial No.' box is the 'Calendar year, (use only last 1 digits)'.</p>
DIP	14,16,18, 20,22,40 22(D2),24(D2)	 <p>Diagram showing the mark layout for DIP packages with 14, 16, 18, 20, 22, 40, 22(D2), and 24(D2) pins. The package is a rectangular chip with a shaded circle on the left side labeled 'Mark of 1pin'. The top surface contains a 'Logo' box, a 'Device name' box, the 'JRC' logo, a 'Device code' box, and a 'Serial No.' box. The 'Device code' and 'Serial No.' boxes are grouped under 'Lot No.'. Below the 'Serial No.' box is the 'Calendar year, (use only last 1 digits)'. At the bottom is the 'Factory code'.</p>
SDIP	22,24,28 30,42,56	 <p>Diagram showing the mark layout for SDIP packages with 22, 24, 28, 30, 42, and 56 pins. The package is a rectangular chip with a shaded circle on the left side labeled 'Mark of 1pin'. The top surface contains a 'Logo' box, a 'Device name' box, the 'JRC' logo, a 'Device code' box, and a 'Serial No.' box. The 'Device code' and 'Serial No.' boxes are grouped under 'Lot No.'. Below the 'Serial No.' box is the 'Calendar year, (use only last 1 digits)'. At the bottom is the 'Factory code'.</p>

Standard Mark Layout

< Surface Mount Type >

Name	Number of pins	Mark Layout
TO-252	3	 <p>Diagram of TO-252 package marking layout. A rectangular package with a notch at the top. A shaded circle in the center is labeled 'Eject pin mark'. At the bottom, there are two pairs of small rectangular marks. The left pair is labeled 'Serial No.' and the right pair is labeled 'Calendar year, (use only last 1 digits)'. A bracket on the right side of the bottom marks is labeled 'LOT No.'. A horizontal line at the top is labeled 'Device name'.</p>
SOT-89	3	<p><BIP></p>  <p>Diagram of SOT-89 package marking layout (BIP). A square package with a notch on the right side. A shaded circle in the center. Four small rectangular marks are arranged in a 2x2 grid. The top-left mark is labeled 'Device No.', the top-right mark is labeled 'Voltage rank', the bottom-left mark is labeled 'Calendar year, (use only last 1 digits)', and the bottom-right mark is labeled 'Month code'.</p> <p><MOS></p>  <p>Diagram of SOT-89 package marking layout (MOS). A square package with a notch on the right side. A shaded circle in the center. Five small rectangular marks are arranged in two rows: three in the top row and two in the bottom row. The top-left mark is labeled 'Voltage rank', the top-middle mark is labeled 'Device No.', the top-right mark is labeled 'Serial No.', the bottom-left mark is labeled 'Calendar year, (use only last 1 digits)', and the bottom-middle mark is labeled 'Serial No.'.</p>
	5	 <p>Diagram of SOT-89 package marking layout (5-pin). A square package with a notch on the right side. A shaded circle in the center. Five small rectangular marks are arranged in two rows: three in the top row and two in the bottom row. The top-left mark is labeled 'Voltage rank', the top-middle mark is labeled 'Device No.', the top-right mark is labeled 'Serial No.', the bottom-left mark is labeled 'Calendar year, (use only last 1 digits)', and the bottom-middle mark is labeled 'Serial No.'.</p>

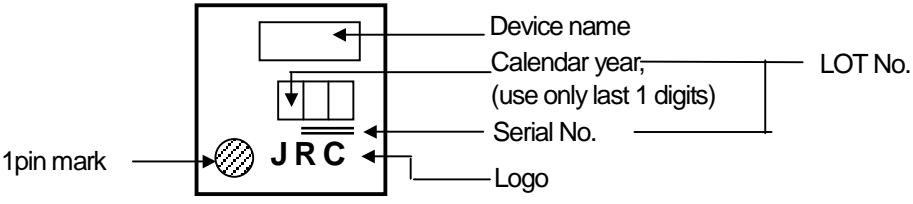
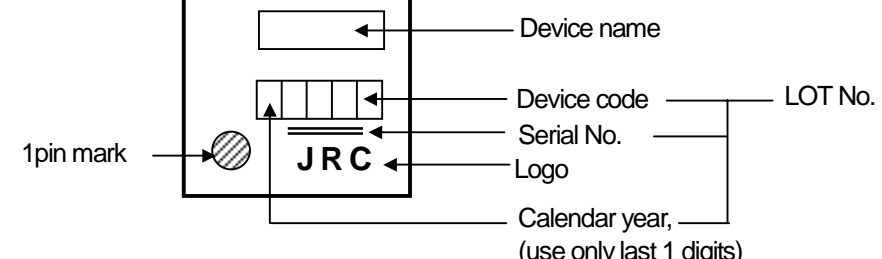
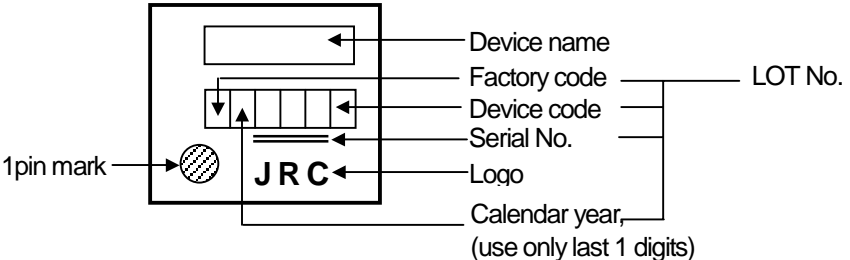
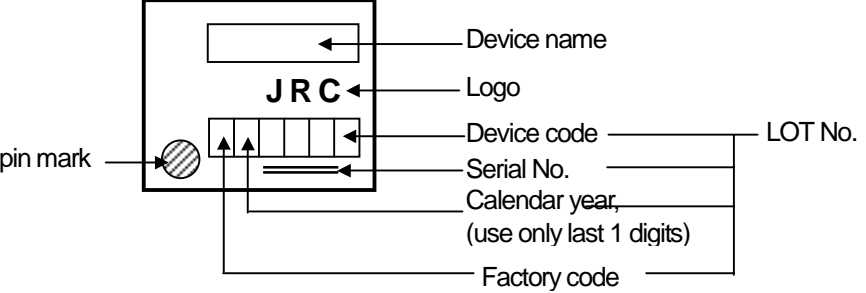
Standard Mark Layout

< Surface Mount Type >

Name	Number of pins	Mark Layout	Remark																																																																																										
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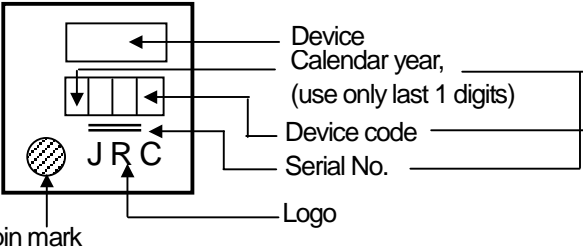
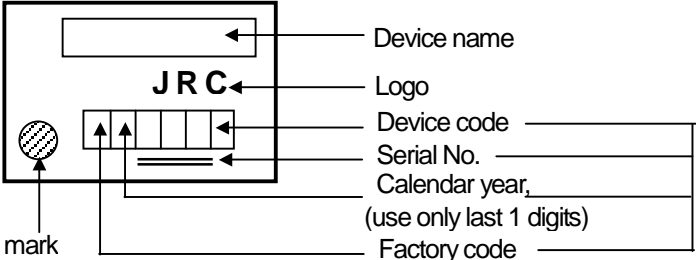
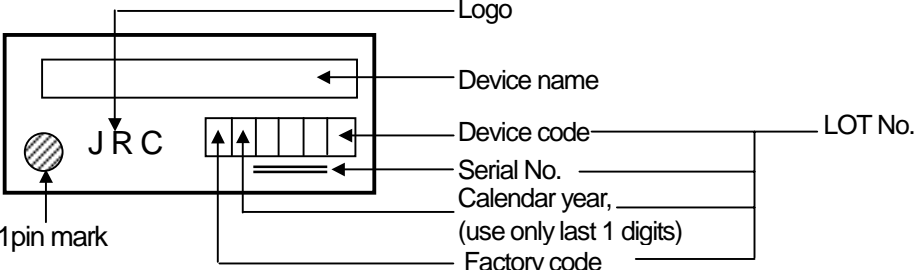
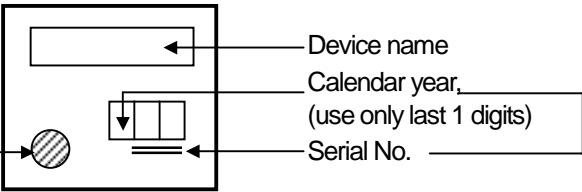
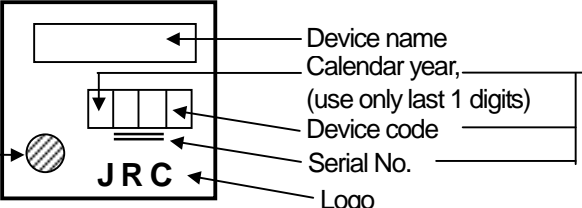
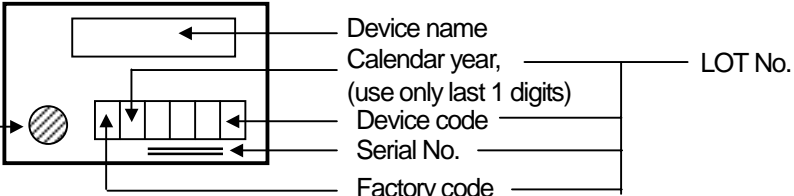
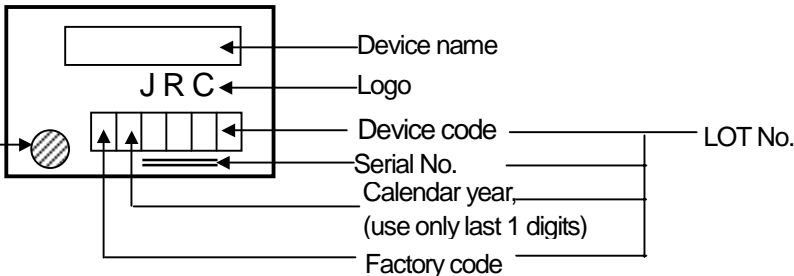
Standard Mark Layout

< Surface Mount Type >

Name	Number of pins	Mark Layout
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	14,16 20(B2)	
	20	
	20(F1) 24	

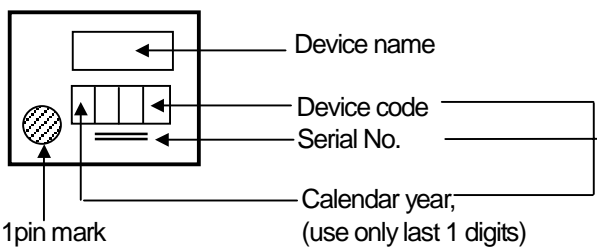
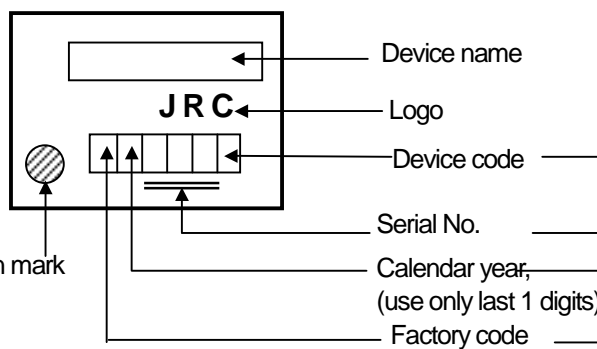
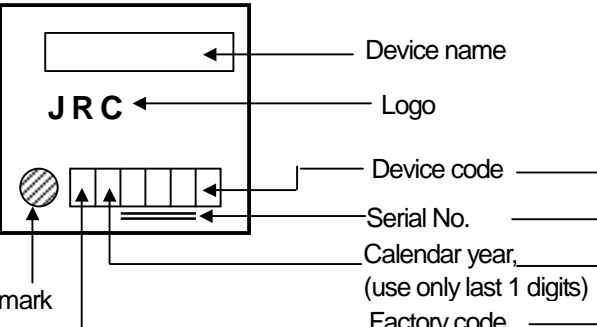
Standard Mark Layout

<Surface Mount Type>

Name	Number of pins	Mark Layout
DMP	8	 <p>Diagram showing a rectangular component with a 1-pin mark (hatched circle) on the left. The top contains a box for Device name and a box for Calendar year (use only last 1 digits). Below these are three boxes for Device code, Serial No., and Logo. The JRC logo is printed in the center.</p>
	14,16 20,24, SDMP30	 <p>Diagram showing a rectangular component with a 1-pin mark (hatched circle) on the left. The top contains a box for Device name and a box for Calendar year (use only last 1 digits). Below these are four boxes for Device code, Serial No., Logo, and Factory code. The JRC logo is printed in the center.</p>
	SDMP42	 <p>Diagram showing a rectangular component with a 1-pin mark (hatched circle) on the left. The top contains a box for Device name and a box for Calendar year (use only last 1 digits). Below these are four boxes for Device code, Serial No., Logo, and Factory code. The JRC logo is printed in the center.</p>
EMP	8	<p><Ink mark></p>  <p>Diagram showing a rectangular component with a 1-pin mark (hatched circle) on the left. The top contains a box for Device name and a box for Calendar year (use only last 1 digits). Below these are two boxes for Device code and Serial No. The JRC logo is printed in the center.</p> <p><Laser mark></p>  <p>Diagram showing a rectangular component with a 1-pin mark (hatched circle) on the left. The top contains a box for Device name and a box for Calendar year (use only last 1 digits). Below these are three boxes for Device code, Serial No., and Logo. The JRC logo is printed in the center.</p>
	14	 <p>Diagram showing a rectangular component with a 1-pin mark (hatched circle) on the left. The top contains a box for Device name and a box for Calendar year (use only last 1 digits). Below these are four boxes for Device code, Serial No., Logo, and Factory code. The JRC logo is printed in the center.</p>
	16,20 24	 <p>Diagram showing a rectangular component with a 1-pin mark (hatched circle) on the left. The top contains a box for Device name and a box for Calendar year (use only last 1 digits). Below these are four boxes for Device code, Serial No., Logo, and Factory code. The JRC logo is printed in the center.</p>

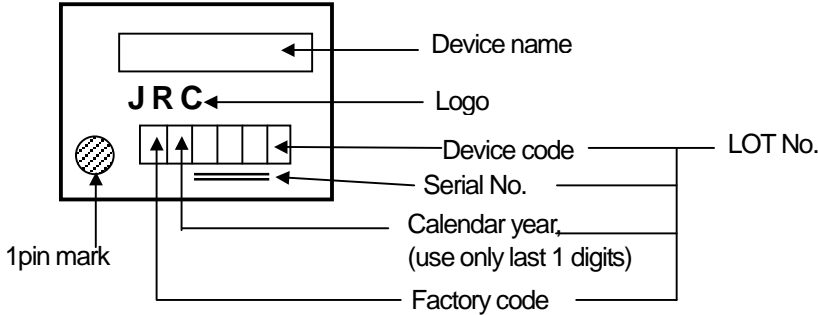
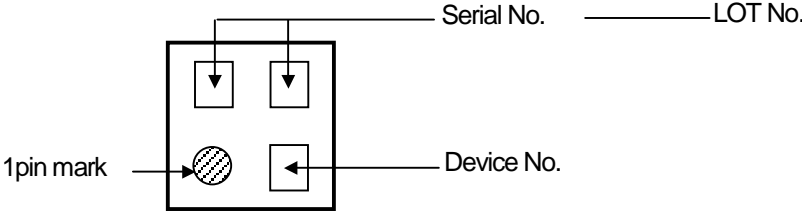
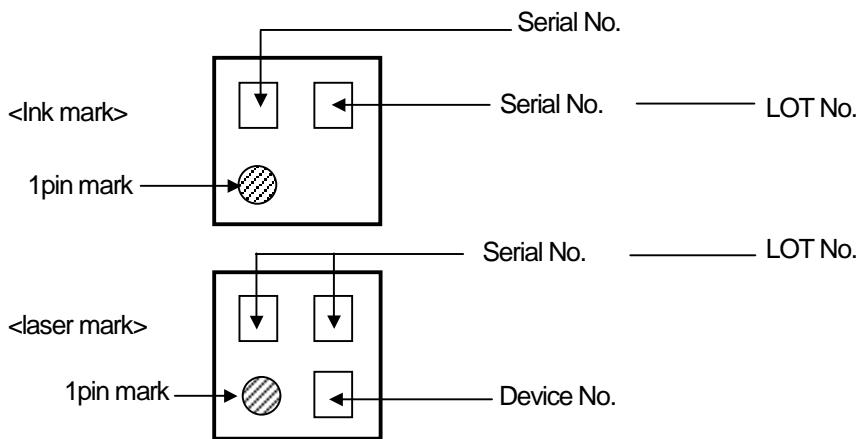
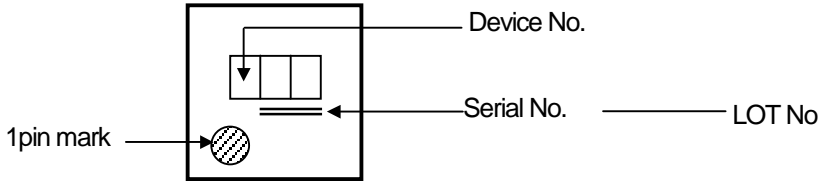
Standard Mark Layout

< Surface Mount Type >

Name	Number of pins	Mark Layout
SOP	8	 <p>Diagram showing the mark layout for an 8-pin SOP package. A shaded circle on the left is labeled "1pin mark". To its right is a box containing a "Device name" field, a "Device code" field, a "Serial No." field, and a "Calendar year, (use only last 1 digits)" field. The "Device code" and "Serial No." fields are grouped together and labeled "LOT No.".</p>
	18,20 22,28 40	 <p>Diagram showing the mark layout for SOP packages with 18, 20, 22, 28, or 40 pins. A shaded circle on the left is labeled "1pin mark". To its right is a box containing a "Device name" field, a "JRC" logo, a "Device code" field, a "Serial No." field, a "Calendar year, (use only last 1 digits)" field, and a "Factory code" field. The "Device code", "Serial No.", "Calendar year", and "Factory code" fields are grouped together and labeled "LOT No.".</p>
PLCC	28	 <p>Diagram showing the mark layout for a 28-pin PLCC package. A shaded circle on the left is labeled "1pin mark". To its right is a box containing a "Device name" field, a "JRC" logo, a "Device code" field, a "Serial No." field, a "Calendar year, (use only last 1 digits)" field, and a "Factory code" field. The "Device code", "Serial No.", "Calendar year", and "Factory code" fields are grouped together and labeled "LOT No.".</p>

Standard Mark Layout

< Surface Mount Type >

Name	Number of pins	Mark Layout
QFP	44A1 56A1 64G1/C1 C2/B1 B2/K1 N1/D1 80C1/C2 G1 100C1/C2 G1	 <p>1pin mark</p> <p>Device name</p> <p>Logo</p> <p>Device code</p> <p>Serial No.</p> <p>Calendar year, (use only last 1 digits)</p> <p>Factory code</p> <p>LOT No.</p>
FFP	12	 <p>1pin mark</p> <p>Serial No.</p> <p>LOT No.</p> <p>Device No.</p>
	16	 <p><Ink mark></p> <p>1pin mark</p> <p>Serial No.</p> <p>Serial No.</p> <p>LOT No.</p> <p>Serial No.</p> <p>LOT No.</p> <p><laser mark></p> <p>1pin mark</p> <p>Device No.</p>
	24,32	 <p>1pin mark</p> <p>Device No.</p> <p>Serial No.</p> <p>LOT No.</p>