

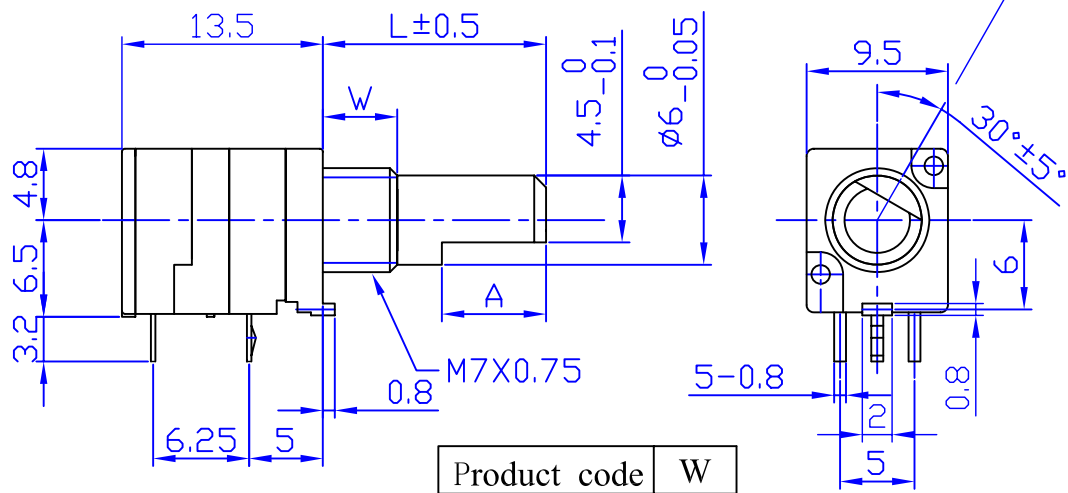
# 电位器规格书

## POTENTIOMETER SPECIFICATIONS

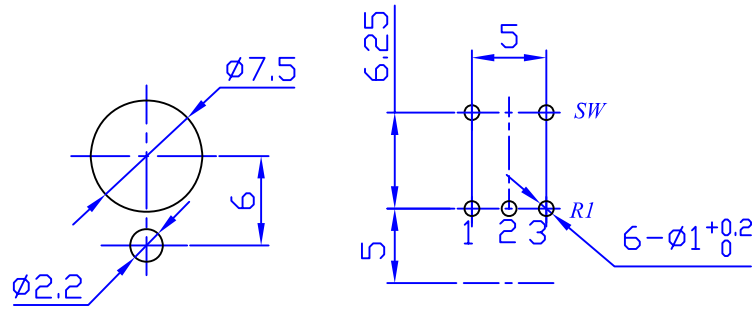
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|--|--|
| <b>1 一般事项</b><br><b>General information</b>        |  |
| 1-1 适用型号<br>Applicable models                      | R095、R096、R097、R098、R09J、R09P、R09B 系列<br>R095/R096/R097/R098/R09J/R09P/R09B Serial   |
| 1-2 使用环境温度<br>Usage environment temperature        | <input checked="" type="checkbox"/> - 10℃ ~ + 70℃ <input type="checkbox"/> - 20℃ ~ + 70℃   |
| 1-3 保存环境温度<br>Storage environment temperature      | - 40℃ ~ + 85℃  |
| 1-4 测试条件<br>Test condition                         | 温度: 5~35℃, 湿度: 45~85%HR<br>Temperature: 5~35℃, Moisture: 45~85%HR  |
| 1-5 环保要求<br>Environmental requisition              | 本产品符合 RoHS 指令<br>This product is compliant with RoHS Directive   |
| 1-6 耐焊接热<br>Soldering heat-resistance              | 1、手工焊接温度最高 350℃ ± 5℃, 3 秒;<br>2、自动焊接温度最高 260℃ ± 5℃, 3 秒; 基板表面预热温度最高 100℃, 1 分钟以内;<br>3、以上过程均保证在 1 到 2 次。<br><br>1. Soldering iron Max ,350℃ ± 5℃ at 3 sec<br>2. Auto soldering 260 °C ± 5℃ max. at 3 Sec . Preheating temperature of board surface: 100℃ max. at within 1 minutes.<br>3. To guarantee the above process at 1 or 2 times. |
| 1-7 原产地<br>Country of origin                       | 中国<br>China  |
| <b>2 构造</b><br><b>Construction</b>                 |  |
| 2-1 外观<br>Appearance                               | 各部件应完整, 无锈蚀、裂痕、电镀不良<br>Every part should finished, not exist rust flaw crack and bad plating   |
| 2-2 寸法<br>Measurements                             | 依照图面规定<br>Under conditions prescribed by design drawing.   |
| <b>3 机械性能</b><br><b>Mechanical characteristics</b> |  |
| 3-1 全回转角度<br>Total rotational angle                | <input checked="" type="checkbox"/> 300 ° ± 10° <input type="checkbox"/> _____   |
| 3-2 回转力矩<br>Rotational torque                      | 10~200gf.cm (旋转速度: 60° /1 秒)<br>10~200gf.cm (Rotational velocity : 60° /1 Sec. )   |
| 3-3 CC 脱出力<br>Detent torque                        | 80~250gf.cm  |
| 3-4 CC 点数<br>Detent quantity                       | <input checked="" type="checkbox"/> 0 <input type="checkbox"/> 1 <input type="checkbox"/> 21 <input type="checkbox"/> 41 <input type="checkbox"/> _____  |
| 3-5 回转止动强度<br>Rotational stopper strength          | <input checked="" type="checkbox"/> ≥ 3Kgf.cm <input type="checkbox"/> ≥ 8Kgf.cm <input type="checkbox"/> ≥ 4Kgf.cm <input type="checkbox"/> ≥ 5Kgf.cm   |
| 3-6 轴压引强度<br>Pull-Push Strength of Shaft           | <input checked="" type="checkbox"/> ≥ 8Kgf <input type="checkbox"/> ≥ 10Kgf  |
| 3-7 螺母锁紧强度<br>Nut tightening strength              | ≥ 10Kgf.cm   |
| 3-8 轴摇晃度<br>Shaft wobble                           | 在单个轴芯顶端施加 250gf, 轴径向偏移量小于: 0.7*轴长 L 尺寸/20mm<br>On the tip of the single shaft exert 250gf , Shaft radial deviant be smaller than: 0.7*shaft long L size/20mm   |
| <b>4 电气性能</b><br><b>Electrical characteristics</b> |  |
| 4-1 全阻抗值<br>Total resistance                       | <input checked="" type="checkbox"/> _____ K Ω ± 20% <input type="checkbox"/> _____ K Ω ± 10% <input type="checkbox"/> _____ K Ω + _____%/- _____%  |
| 4-2 阻抗变化特性<br>Resistance taper                     | <input type="checkbox"/> B <input checked="" type="checkbox"/> A <input type="checkbox"/> C <input type="checkbox"/> _____   |

|  |  |                   |                  |
|--|--|-------------------|------------------|
| 4-3 残留阻抗值 (端子: 1-2, 2-3)<br>End resistance (Terminal :1-2, 2-3)  | $R \leq 10K \Omega : \leq 10 \Omega ; \quad 10K \Omega < R \leq 250K \Omega : \leq 20 \Omega ; \quad R > 250K \Omega : \leq 0.1\%R$  |                   |                  |
| 4-4 定格电力<br>Ratings power  | B 线性: 0.05W, 其它线性: 0.025W<br>B Taper : 0.05W, Other taper : 0.025W   |                   |                  |
| 4-5 最高使用电压<br>Maximum operating voltage  | B 线性: 20V DC 或 50V AC, 其它线性: 12V DC 或 25V AC<br>B Taper : 20V AC or 50V AC, Other taper : 12V DC or 25V AC   |                   |                  |
| 4-6 滑动杂音<br>Slider noise   | <100mV   |                   |                  |
| 4-7 同步误差<br>Gang error   | <input type="checkbox"/> $\pm 4dB$ (-40dB~0dB) <input type="checkbox"/> $\pm 3dB$ (-40dB~0dB)<br>*只适用于双联<br>*Apply the Dual-Unit only  |                   |                  |
| 4-8 绝缘抵抗<br>Insulation resistance  | 250V DC, >100M $\Omega$  |                   |                  |
| 4-9 耐电压<br>Voltage proof   | 300V AC 1 分钟以上<br>1 Minute at 300V AC  |                   |                  |
| 4-10 回转寿命<br>Rotational life   | <input checked="" type="checkbox"/> 10,000 cycles <input type="checkbox"/> 15,000 cycles <input type="checkbox"/> 30,000 cycles<br>注: 无负荷状态以每小时 600 周旋转, 允许阻值最大变化 $\pm 15\%$ 。<br>On the without load status according to the 600 r./h rotation, permissible resistance change $\pm 15\%$ max.   |                   |                  |
| <b>5 开关性能</b><br><b>Switch characteristics</b>   |  |                   |                  |
| <input checked="" type="checkbox"/> 适用 <input type="checkbox"/> 不适用<br>Apply                              No apply |  |                   |                  |
| 5-1 开关型式<br>Switch type  | <input checked="" type="checkbox"/> 旋转式 <input type="checkbox"/> 按压复位式<br>Rotate type                      Push-Push type  |                   |                  |
| 5-2 开关回路<br>Switch circuit   | 单极单投<br>S . P . S . T  |                   |                  |
| 5-3 开关定格电力<br>Switch ratings power   | 旋转开关: 12V DC 1A                      按压复位开关: 12V DC 0.5A<br>Rotate switch: 12V DC 1A                      Push-Push switch: 12V DC 0.5A  |                   |                  |
| 5-4 开关接触电阻<br>Switch contact resistance  | 寿命初期: 100 m $\Omega$ 最大, 开关 10,000 次以后: 最大 1 $\Omega$<br>The life initial stage: 100 m $\Omega$ max., after on-off 10,000 cycles: 1 $\Omega$ m ax.   |                   |                  |
| 5-5 开关工作角度或行程<br>Switch working angle or track   | 旋转开关: 50° $\pm$ 10°<br>按压复位开关行程: 0.5mm 或 1.5mm, 具体参照图纸<br>Rotate switch: 50° $\pm$ 10° .<br>Push-Push switch track: 0.5mm or 1.5mm, specific reference to the drawing.   |                   |                  |
| 5-6 开关工作力矩<br>Switch working torque  | 旋转开关: 最大 800gf.cm                      按压开关: 700 $\pm$ 300gf<br>Rotate switch: 800gf.cm max.                      Push-Push switch: 700 $\pm$ 300gf  |                   |                  |
| 5-7 开关寿命<br>Switch life  | 10,000 cycles  |                   |                  |
| <b>6 防水性能</b><br><b>Waterproof characteristics</b>   |  |                   |                  |
| 6-1 防水标准<br>Waterproof standard  | <input checked="" type="checkbox"/> 不适用<br>No apply<br><br><input type="checkbox"/> 七级防水<br>电位器轴芯轴套置于水中 1 米深处, 其它部件密封后暴露在标准大气压中, 30 分钟后电位器内部未进水。<br>Grade -7 of Waterproof standard<br>Potentiometer's Shaft and Bush in 1M deep of water , other component sealed after be exposed to the standard atmosphere, after 30 minutes no water into the Potentiometer' inner. |                   |                  |
| <b>东莞市长泰尔电子有限公司</b><br><b>DONG GUAN CHANG TAI ER ELECTRONIC CO., LTD.</b>  |  | 制作<br>Designed By | 审核<br>Checked By |
|  |  | 核准<br>Approved By |                  |

Full C.C.W position

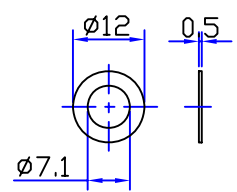


Mounting hole detail

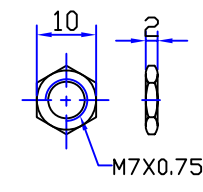


| Product code | W  |
|--------------|----|
| R09710NS     | 5  |
| R09720NS     | 7  |
| R09730NS     | 10 |

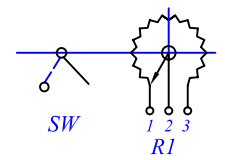
Washer 垫圈(可选项)



Nut 螺母(可选项)



回路图:  
Circuit diagram



轴的类型:

|  |      |      |     |     |     |     |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
|--|------|------|-----|-----|-----|-----|------|------|----|---|-----|-----|----|-----|---|-----|-----|--|-----------|-----------|--|---|----|----|----|----|----|-----------|-----------|--|---|----|----|----|-----|----|----|--|--|--|---|------|----|----|----|----|----|----|---|---|----|------|-----|----|----|----|------|---|-----------|-----------|-----------|-----------|--|----|----|-----|----|----|----|----|--|--|---|---|----|----|----|-----|---|--|--|---|---|----|----|----|----|----|----|--|--|---|---|---|---|-----|-----|-----|--|--|--|---|----|----|----|--|--|--|--|--|---|---|-----|---|--|--|--|--|--|
| <p>F Shaft Style</p> <table border="1"> <tr><td>L</td><td>15</td><td>20</td><td>25</td><td>30</td><td>15</td><td>20</td><td>22.5</td><td>14</td></tr> <tr><td>A</td><td>7</td><td>12</td><td>12</td><td>3.5</td><td>7</td><td>8.0</td><td>8.0</td><td></td></tr> </table>  | L    | 15   | 20  | 25  | 30  | 15  | 20   | 22.5 | 14 | A | 7   | 12  | 12 | 3.5 | 7 | 8.0 | 8.0 |  | <p>FB</p> | <p>FR</p> | <p>KA Shaft Style</p> <table border="1"> <tr><td>L</td><td>15</td><td>20</td><td>25</td><td>30</td><td>15</td><td>20</td><td></td><td></td></tr> <tr><td>A</td><td>7</td><td>12</td><td>12</td><td>3.5</td><td>7</td><td></td><td></td><td></td></tr> </table> | L | 15 | 20 | 25 | 30 | 15 | 20        |           |  | A | 7  | 12 | 12 | 3.5 | 7  |    |  |  | <p>FC Shaft Style</p> <table border="1"> <tr><td>L</td><td>14.6</td><td>15</td><td>15</td><td>20</td><td>25</td><td>30</td><td>15</td><td>20</td></tr> <tr><td>A</td><td>7</td><td>7</td><td>7.5</td><td>12</td><td>12</td><td>12</td><td>3.5</td><td>7</td></tr> </table> | L | 14.6 | 15 | 15 | 20 | 25 | 30 | 15 | 20  | A | 7  | 7    | 7.5 | 12 | 12 | 12 | 3.5  | 7 | <p>FL</p> | <p>FR</p> | <p>SB</p> | <p>SR</p> | <p>FP Shaft Style</p> <table border="1"> <tr><td>L</td><td>15</td><td>20</td><td>25</td><td>30</td><td>15</td><td>20</td><td></td><td></td></tr> <tr><td>A</td><td>7</td><td>12</td><td>12</td><td>12</td><td>3.5</td><td>7</td><td></td><td></td></tr> </table> | L  | 15 | 20  | 25 | 30 | 15 | 20 |  |  | A | 7 | 12 | 12 | 12 | 3.5 | 7 |  |  | <p>SA Shaft Style</p> <table border="1"> <tr><td>L</td><td>15</td><td>10</td><td>17</td><td>18</td><td>18</td><td>20</td><td></td><td></td></tr> <tr><td>A</td><td>7</td><td>4</td><td>8</td><td>5.4</td><td>9.5</td><td>5.4</td><td></td><td></td></tr> </table> | L | 15 | 10 | 17 | 18 | 18 | 20 |  |  | A | 7 | 4 | 8 | 5.4 | 9.5 | 5.4 |  |  | <p>FD Shaft Style</p> <table border="1"> <tr><td>L</td><td>15</td><td>15</td><td>20</td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>A</td><td>7</td><td>7.5</td><td>8</td><td></td><td></td><td></td><td></td><td></td></tr> </table> | L | 15 | 15 | 20 |  |  |  |  |  | A | 7 | 7.5 | 8 |  |  |  |  |  |
| L  | 15   | 20   | 25  | 30  | 15  | 20  | 22.5 | 14   |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 12   | 12  | 3.5 | 7   | 8.0 | 8.0  |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 15   | 20   | 25  | 30  | 15  | 20  |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 12   | 12  | 3.5 | 7   |     |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 14.6 | 15   | 15  | 20  | 25  | 30  | 15   | 20   |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 7    | 7.5 | 12  | 12  | 12  | 3.5  | 7    |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 15   | 20   | 25  | 30  | 15  | 20  |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 12   | 12  | 12  | 3.5 | 7   |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 15   | 10   | 17  | 18  | 18  | 20  |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 4    | 8   | 5.4 | 9.5 | 5.4 |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 15   | 15   | 20  |     |     |     |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 7.5  | 8   |     |     |     |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| <p>K Shaft Style</p> <table border="1"> <tr><td>L</td><td>12</td><td>15</td><td>20</td><td>25</td><td>15</td><td>20</td><td></td><td></td></tr> <tr><td>T</td><td>3.5</td><td>7.5</td><td>12</td><td>12</td><td>6</td><td>6.5</td><td></td><td></td></tr> <tr><td>M</td><td>0.5</td><td>1</td><td>2</td><td>2</td><td>1</td><td>2</td><td></td><td></td></tr> </table> | L    | 12   | 15  | 20  | 25  | 15  | 20   |      |    | T | 3.5 | 7.5 | 12 | 12  | 6 | 6.5 |     |  | M         | 0.5       | 1  | 2 | 2  | 1  | 2  |    |    | <p>KQ</p> | <p>KR</p> | <p>FX Shaft Style</p> <table border="1"> <tr><td>L</td><td>15</td><td>15</td><td>20</td><td>20</td><td>25</td><td>30</td><td></td><td></td></tr> <tr><td>A</td><td>7</td><td>3.5</td><td>7</td><td>12</td><td>12</td><td>12</td><td></td><td></td></tr> </table> | L | 15 | 15 | 20 | 20  | 25 | 30 |  |  | A  | 7 | 3.5  | 7  | 12 | 12 | 12 |    |    | <p>FE Shaft Style</p> <table border="1"> <tr><td>L</td><td>15</td><td>17.8</td><td>20</td><td>20</td><td>25</td><td>30</td><td>17.8</td><td></td></tr> <tr><td>A</td><td>7</td><td>5.6</td><td>7</td><td>12</td><td>12</td><td>12</td><td>5.5</td><td></td></tr> </table> | L | 15 | 17.8 | 20  | 20 | 25 | 30 | 17.8 |   | A         | 7         | 5.6       | 7         | 12   | 12 | 12 | 5.5 |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 12   | 15   | 20  | 25  | 15  | 20  |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| T  | 3.5  | 7.5  | 12  | 12  | 6   | 6.5 |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| M  | 0.5  | 1    | 2   | 2   | 1   | 2   |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 15   | 15   | 20  | 20  | 25  | 30  |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 3.5  | 7   | 12  | 12  | 12  |      |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| L  | 15   | 17.8 | 20  | 20  | 25  | 30  | 17.8 |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |
| A  | 7    | 5.6  | 7   | 12  | 12  | 12  | 5.5  |      |    |   |     |     |    |     |   |     |     |  |           |           |  |   |    |    |    |    |    |           |           |  |   |    |    |    |     |    |    |  |  |  |   |      |    |    |    |    |    |    |   |   |    |      |     |    |    |    |      |   |           |           |           |           |  |    |    |     |    |    |    |    |  |  |   |   |    |    |    |     |   |  |  |   |   |    |    |    |    |    |    |  |  |   |   |   |   |     |     |     |  |  |  |   |    |    |    |  |  |  |  |  |   |   |     |   |  |  |  |  |  |

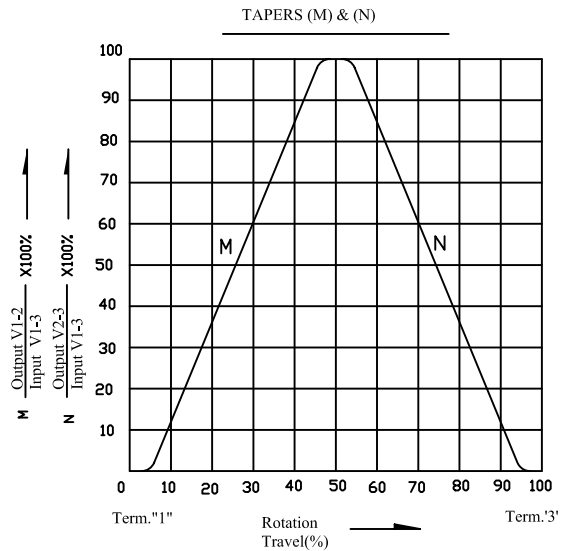
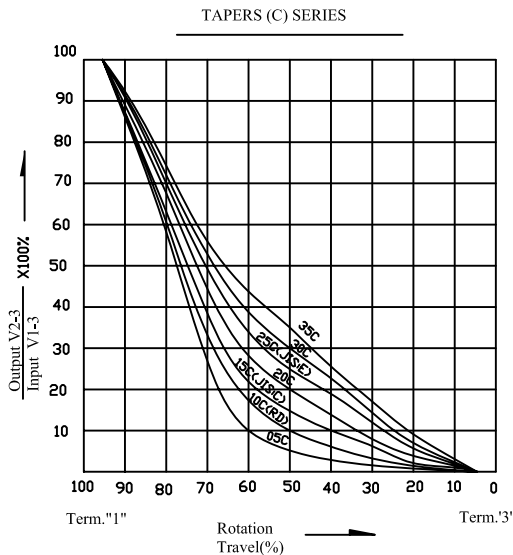
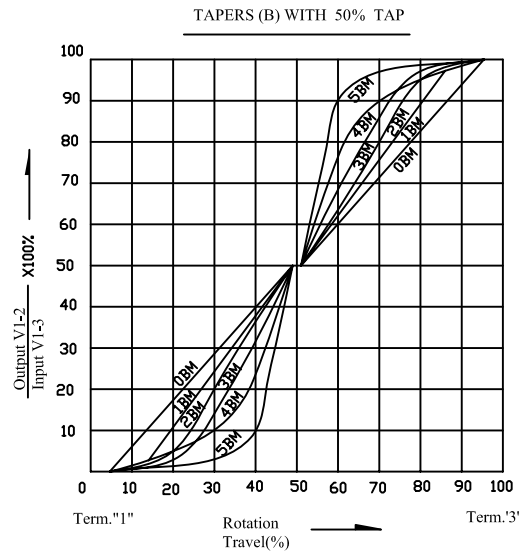
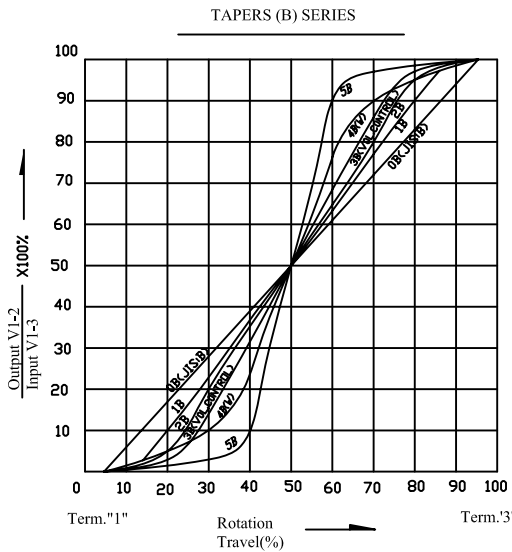
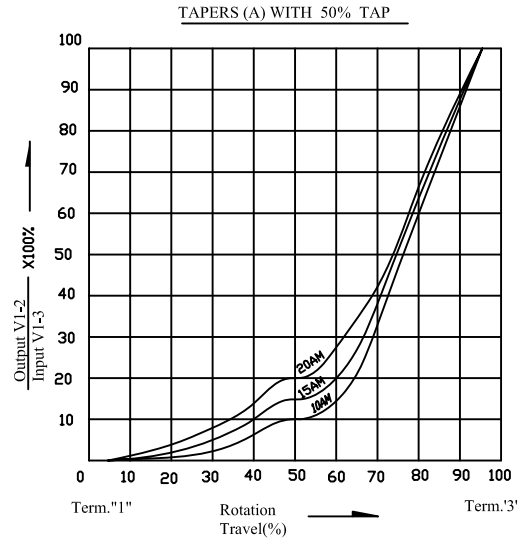
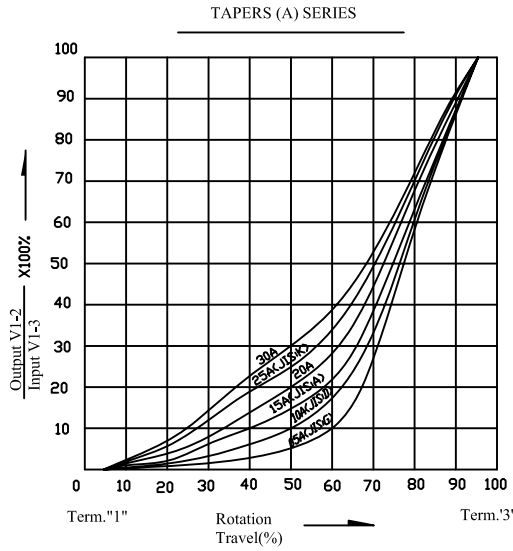
|                    |  |              |     |              |     |            |
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| L ≤ 1.0时 ±0.1      |  | 视角           | 制图  | 胡为明          | 出图日 | 2013.07.19 |
| 1.0 < L ≤ 10时 ±0.3 |  | 比例           | 2:1 | 单位           | mm  |            |
| 10 < L ≤ 30时 ±0.5  |  | 版本           | 2.0 | 设计           | 审核  | 批准         |
| 30 < L ≤ 100时 ±1.0 |  | 品名           |     | R097□0NS 组立图 |     |            |
| 增加FE轴心规格尺寸         |  | 图号           |     | R097□0NS-    |     |            |
| 增加FE轴心规格           |  |              |     |              |     |            |
| 变更内容               |  |              |     |              |     |            |

|    |            |     |            |
|----|------------|-----|------------|
| 标记 | 变更内容       | 改图  | 日期         |
| ▽  |            |     |            |
| ▽  |            |     |            |
| ▽  |            |     |            |
| ▽  | 增加FE轴心规格尺寸 | 谢敏  | 2015-10-24 |
| ▽  | 增加FE轴心规格   | 廖金华 | 2014-11-21 |

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