



# Control Potentiometers

## Cermet 17, 23 mm

		
<b>Series</b>	<b>MRC 17 potentiometer</b>	<b>MRC 23 potentiometer</b>
<b>Overall dimensions</b>	17 x 21 mm	23 mm
<b>Technology</b>	metal glaze resistive layer on a ceramic base	
<b>Mounting options</b>	vertical	vertical
<b>Features</b>	<ul style="list-style-type: none"> <li>• module with bush and metal spindle</li> <li>• multi - finger wiper</li> <li>• shaft in several executions:               <ul style="list-style-type: none"> <li>- <math>\varnothing 4, \varnothing 6</math></li> <li>- metal, plastic</li> <li>- plain, flat</li> <li>- length 20 mm, 30 mm</li> </ul> </li> <li>• bush M10, M7</li> <li>• tags in line, tags staggered</li> </ul>	<ul style="list-style-type: none"> <li>• the bushing is profiled to act as a heatsink</li> <li>• four - finger wiper low inductance</li> <li>• metal shaft <math>\varnothing 6</math> mm plain</li> <li>• bush M10</li> <li>• print tags, solder tags</li> </ul>
<b>Resistance range</b>	220 $\Omega$ - 4.7 M $\Omega$ linear E3 series (10-22-47)	47 $\Omega$ - 22 M $\Omega$ linear E3 series (10-22-47)
<b>Tolerance</b>	$\pm 10\%$	$\pm 10\%, \pm 20\%$
<b>Maximum dissipation at 40 °C</b>	2 W metal shaft 3 W metal shaft + heatsink (on request)	5 W
<b>Total mechanical angle of rotation</b>	300° $\pm 2^\circ$	300° $\pm 5^\circ$
<b>Temperature coefficient</b>	$\pm 100 \times 10^{-6}/K$	$\pm 100 \times 10^{-6}/K$
<b>Climatic category</b>	40/100/56	55/125/56
	<input type="checkbox"/> preferred	

Ordering information Preferred types																																																																																																																																															
Series	MRC 17	MRC 23																																																																																																																																													
<b>Catalogue number</b>	<b>2322 511 05</b> <div style="margin-left: 20px;">           Resistance code <span style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;"> </span> </div> Shaft <ul style="list-style-type: none"> <li>0 20 mm, plain</li> <li>1 30 mm, plain</li> <li>2 20 mm, flat</li> <li>3 30 mm, flat</li> </ul>	<b>2322 481</b> <div style="margin-left: 20px;">           Resistance code <span style="border-left: 1px solid black; border-right: 1px solid black; padding: 0 5px;"> </span> </div> Shaft length <ul style="list-style-type: none"> <li>06 18 mm</li> <li>03 30 mm</li> <li>07 60 mm</li> </ul> 0 solder tags 1 print tags																																																																																																																																													
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="6">Resistance code for MRC 17</th> </tr> <tr> <th>R</th> <th>law</th> <th>linear</th> <th>R</th> <th>law</th> <th>linear</th> </tr> </thead> <tbody> <tr><td>220 <math>\Omega</math></td><td></td><td>02</td><td>47 k<math>\Omega</math></td><td></td><td>09</td></tr> <tr><td>470 <math>\Omega</math></td><td></td><td>03</td><td>100 k<math>\Omega</math></td><td></td><td>11</td></tr> <tr><td>1 k<math>\Omega</math></td><td></td><td>04</td><td>220 k<math>\Omega</math></td><td></td><td>12</td></tr> <tr><td>2.2 k<math>\Omega</math></td><td></td><td>05</td><td>470 k<math>\Omega</math></td><td></td><td>13</td></tr> <tr><td>4.7 k<math>\Omega</math></td><td></td><td>06</td><td>1 M<math>\Omega</math></td><td></td><td>14</td></tr> <tr><td>10 k<math>\Omega</math></td><td></td><td>07</td><td>2.2 M<math>\Omega</math></td><td></td><td>15</td></tr> <tr><td>22 k<math>\Omega</math></td><td></td><td>08</td><td>4.7 M<math>\Omega</math></td><td></td><td>16</td></tr> </tbody> </table>	Resistance code for MRC 17						R	law	linear	R	law	linear	220 $\Omega$		02	47 k $\Omega$		09	470 $\Omega$		03	100 k $\Omega$		11	1 k $\Omega$		04	220 k $\Omega$		12	2.2 k $\Omega$		05	470 k $\Omega$		13	4.7 k $\Omega$		06	1 M $\Omega$		14	10 k $\Omega$		07	2.2 M $\Omega$		15	22 k $\Omega$		08	4.7 M $\Omega$		16	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="7">Resistance code for MRC 23</th> </tr> <tr> <th>R</th> <th>tol.</th> <th>10%</th> <th>20%</th> <th>R</th> <th>tol.</th> <th>10%</th> <th>20%</th> </tr> </thead> <tbody> <tr><td>47 <math>\Omega</math></td><td></td><td>41</td><td>91</td><td>47 k<math>\Omega</math></td><td></td><td>09</td><td>59</td></tr> <tr><td>100 <math>\Omega</math></td><td></td><td>01</td><td>51</td><td>100 k<math>\Omega</math></td><td></td><td>11</td><td>61</td></tr> <tr><td>220 <math>\Omega</math></td><td></td><td>02</td><td>52</td><td>220 k<math>\Omega</math></td><td></td><td>12</td><td>62</td></tr> <tr><td>470 <math>\Omega</math></td><td></td><td>03</td><td>53</td><td>470 k<math>\Omega</math></td><td></td><td>13</td><td>63</td></tr> <tr><td>1 k<math>\Omega</math></td><td></td><td>04</td><td>54</td><td>1 M<math>\Omega</math></td><td></td><td>14</td><td>64</td></tr> <tr><td>22 k<math>\Omega</math></td><td></td><td>05</td><td>55</td><td>22 M<math>\Omega</math></td><td></td><td>15</td><td>65</td></tr> <tr><td>47 k<math>\Omega</math></td><td></td><td>06</td><td>56</td><td>47 M<math>\Omega</math></td><td></td><td>16</td><td>66</td></tr> <tr><td>10 k<math>\Omega</math></td><td></td><td>07</td><td>57</td><td>10 M<math>\Omega</math></td><td></td><td>17</td><td>67</td></tr> <tr><td>22 k<math>\Omega</math></td><td></td><td>08</td><td>58</td><td>22 M<math>\Omega</math></td><td></td><td>18</td><td>68</td></tr> </tbody> </table>	Resistance code for MRC 23							R	tol.	10%	20%	R	tol.	10%	20%	47 $\Omega$		41	91	47 k $\Omega$		09	59	100 $\Omega$		01	51	100 k $\Omega$		11	61	220 $\Omega$		02	52	220 k $\Omega$		12	62	470 $\Omega$		03	53	470 k $\Omega$		13	63	1 k $\Omega$		04	54	1 M $\Omega$		14	64	22 k $\Omega$		05	55	22 M $\Omega$		15	65	47 k $\Omega$		06	56	47 M $\Omega$		16	66	10 k $\Omega$		07	57	10 M $\Omega$		17	67	22 k $\Omega$		08	58	22 M $\Omega$		18	68
Resistance code for MRC 17																																																																																																																																															
R	law	linear	R	law	linear																																																																																																																																										
220 $\Omega$		02	47 k $\Omega$		09																																																																																																																																										
470 $\Omega$		03	100 k $\Omega$		11																																																																																																																																										
1 k $\Omega$		04	220 k $\Omega$		12																																																																																																																																										
2.2 k $\Omega$		05	470 k $\Omega$		13																																																																																																																																										
4.7 k $\Omega$		06	1 M $\Omega$		14																																																																																																																																										
10 k $\Omega$		07	2.2 M $\Omega$		15																																																																																																																																										
22 k $\Omega$		08	4.7 M $\Omega$		16																																																																																																																																										
Resistance code for MRC 23																																																																																																																																															
R	tol.	10%	20%	R	tol.	10%	20%																																																																																																																																								
47 $\Omega$		41	91	47 k $\Omega$		09	59																																																																																																																																								
100 $\Omega$		01	51	100 k $\Omega$		11	61																																																																																																																																								
220 $\Omega$		02	52	220 k $\Omega$		12	62																																																																																																																																								
470 $\Omega$		03	53	470 k $\Omega$		13	63																																																																																																																																								
1 k $\Omega$		04	54	1 M $\Omega$		14	64																																																																																																																																								
22 k $\Omega$		05	55	22 M $\Omega$		15	65																																																																																																																																								
47 k $\Omega$		06	56	47 M $\Omega$		16	66																																																																																																																																								
10 k $\Omega$		07	57	10 M $\Omega$		17	67																																																																																																																																								
22 k $\Omega$		08	58	22 M $\Omega$		18	68																																																																																																																																								
<b>Quantity</b>	100	50																																																																																																																																													
<b>Packing</b>	expanded polystyrene shells																																																																																																																																														