



ALTERNATIVE  
ENERGY



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TELECOMMUNICATIONS



AUTOMOTIVE

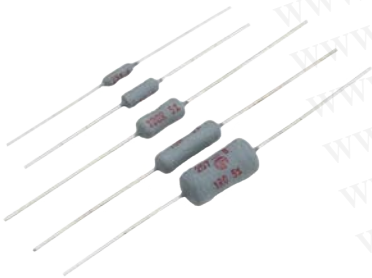


INDUSTRY

# RESISTOR PRODUCT SELECTION GUIDE



LIGHTING



POWER  
SUPPLY



HOME  
APPLIANCES



**VITROHM**  
A YAGEO Company

WWW.100Y.COM.TW

**Since 1933 the electrical resistor has a name: VITROHM.**

Founded in Denmark and member of YAGEO Group since 1996, VITROHM is an electrical resistors manufacturer and specialist, which satisfy customers' needs all over the world for more than 40 years.

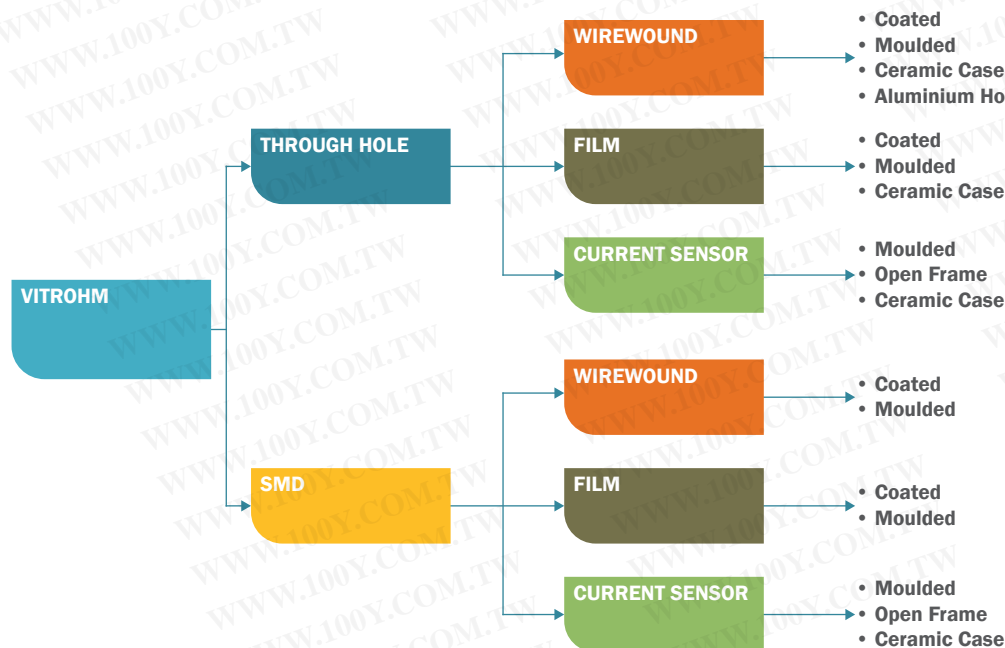
In addition to the clearly defined levels of quality assurance in products and production, the energies of these departments are becoming increasingly more involved with approvals in the field of international standardization.

Part of "VITROHM Law" is to ensure that the customer uses the product which is best suited to his application rather than allowing convention to prevail. VITROHM has in the Development and Technical department a highly qualified engineer's team and a testing laboratory to ensure the best products.

VITROHM is well known for its rapid response to innovation, its ability to accept and understand customer's needs and to react with the same energy to all requirements. We design, create and produce resistors according to your special project. We've got what it takes to keep coming up with innovative – and surprising – solutions for the future. This is underpinned by the expertise and high capability of our internationally experienced company.

If you are using a resistor, which you did not get from VITROHM, there is only one likely explanation: You did not know that VITROHM can supply it. If the product required is not shown in this guide, we may have a customized product for your application.







Please do not hesitate to contact our support at [vitrohm.support@yageo.com](mailto:vitrohm.support@yageo.com).











WIREWOUND RESISTORS

CERAMIC CASE









GENERAL PURPOSE

Product	KH	KWH	KV	KWA	KWP	KVV		
Picture								
Type	KH206-8 to KH218-8	KWH2 to KWH20	KV206-3 to KV218-3	KWA15 to KWA40	KWP330-x to KWP338-x	KVV302-0 to KVV310-0	KVV302-2 to KVV310-2	KVV302-3 to KVV310-3
Resistance Range	OR056 up to 82K	OR1 up to 15K	OR056 up to 82K	OR51 up to 10K	OR2 up to 10K	OR03 up to 510R	OR08 up to 100R	OR1 up to 16K
Rated Power [W]	4,0 up to 17,0	2,0 up to 20	4,0 up to 17,0	15,0 up to 40,0	2,0 up to 20,0	2,0 up to 10,0	2,0 up to 10,0	2,0 up to 10,0
T. C. [ppm/°C]	-80 to +500	-400 to +1.000	-80 to +500	± 250	-80 to +500	±300	±300	-80 to +500
Tolerance ± [%]	5, 10	5	5, 10	5	5, 10	5	5	5
Load Life ± [%]	3	5	3	5	3	5	5	3
Temperature Range [°C]	-55 ... +350	-55 ... +250	-55 ... +350	-55 ... +350	-55 ... +275	-55 ... +155	-55 ... +155	-55 ... +275
Size [mm]	<ul style="list-style-type: none"> <li>• 6,4x20</li> <li>• 6,4x25</li> <li>• 6,4x38</li> <li>• 9x25</li> <li>• 9x38</li> <li>• 9x50</li> <li>• 9x75</li> </ul>	<ul style="list-style-type: none"> <li>• 6,5x17,5</li> <li>• 8x22</li> <li>• 9,5x22</li> <li>• 9,5x35</li> <li>• 9,5x48</li> <li>• 12,5x48</li> <li>• 12,5x63,5</li> </ul>	<ul style="list-style-type: none"> <li>• 7x20</li> <li>• 7x25</li> <li>• 7x38</li> <li>• 9x25</li> <li>• 9x38</li> <li>• 9x50</li> <li>• 9x75</li> </ul>	<ul style="list-style-type: none"> <li>• 13x48</li> <li>• 13x63,5</li> <li>• 19x75</li> <li>• 19x90</li> </ul>	<ul style="list-style-type: none"> <li>• 10x23</li> <li>• 10x25</li> <li>• 10x28</li> <li>• 10x35</li> <li>• 10x43</li> <li>• 10x48</li> <li>• 13x50</li> <li>• 13x65</li> </ul>	<ul style="list-style-type: none"> <li>• 20x11x7</li> <li>• 25x12x8</li> <li>• 25x13x9</li> <li>• 39x13x9</li> <li>• 35x16x12</li> <li>• 51x13x9</li> </ul>	<ul style="list-style-type: none"> <li>• 20x11x7</li> <li>• 25x12x8</li> <li>• 25x13x9</li> <li>• 39x13x9</li> <li>• 35x16x12</li> <li>• 51x13x9</li> </ul>	<ul style="list-style-type: none"> <li>• 20,5x11x7</li> <li>• 25x12x8</li> <li>• 26x13x9</li> <li>• 39x13x9,5</li> <li>• 35x16x12</li> <li>• 51x13x9,5</li> </ul>
Packaging	Bulk / Taped	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk
Features	<ul style="list-style-type: none"> <li>• Pulse version available</li> <li>• Preforming available</li> </ul>		<ul style="list-style-type: none"> <li>• Pulse version available</li> </ul>	<ul style="list-style-type: none"> <li>• Pulse version available</li> <li>• Automotive grade</li> </ul>	<ul style="list-style-type: none"> <li>• Pulse version available</li> </ul>	<ul style="list-style-type: none"> <li>• Ceramic core</li> <li>• Board space saving</li> <li>• High power to size ratio</li> </ul>	<ul style="list-style-type: none"> <li>• Non-inductive style</li> <li>• Board space saving</li> <li>• High power to size ratio</li> </ul>	<ul style="list-style-type: none"> <li>• Fiberglass core</li> <li>• Pulse version available</li> <li>• Board space saving</li> <li>• High power to size ratio</li> </ul>
Applications	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Capacitor charging</li> <li>• Ultrasonic cleaning machines</li> <li>• Ultrasonic plastic welding machines</li> </ul> <p><b>White goods</b></p> <p><b>Maritime applications</b></p>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Capacitor charging</li> <li>• Ultrasonic cleaning machines</li> <li>• Ultrasonic plastic welding machines</li> </ul> <p><b>White goods</b></p> <p><b>Maritime applications</b></p>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Capacitor charging</li> <li>• Ultrasonic cleaning machines</li> <li>• Ultrasonic plastic welding machines</li> </ul> <p><b>White goods</b></p> <p><b>Maritime applications</b></p>	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Electrical cars</li> <li>• Voltage drop solution</li> <li>• Motor controls</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Load resistors</li> <li>• Inrush current limiter</li> <li>• Motor controllers</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Power supply</li> <li>• Motor controllers</li> <li>• Inrush and surge applications</li> </ul>	<p><b>Industry</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• UPS</li> </ul> <p><b>Alternative energy</b></p>	<p><b>Industry</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• UPS</li> </ul> <p><b>Alternative energy</b></p>	<p><b>Industry</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• UPS</li> </ul> <p><b>Alternative energy</b></p>

WIREWOUND RESISTORS

	CERAMIC CASE			COATED				MOULDED
	FUSIBLE			GENERAL PURPOSE				
Product	KF	KT	RXF	CR	RX	KC	KP	BW
Picture								
Type	KF206-4 to KF218-4	KT212-7 to KT218-7	RXF5 to RXF10	CR251-0 to CR259-0	RX0207W5 to RX102266W	KC200-0 to KC204-0	KP290-0/1 to KP298-0/1	BW234-0 and BW235-0
Resistance Range	OR1 up to 82K	OR075 up to 82K	1R0 up to 120R	OR01 up to 5K1	OR1 up to 6K8	OR056 up to 30K	OR10 up to 36K	OR01 up to 2K4
Rated Power [W]	1,2 up to 6,0	2,0 up to 4,5	5,0 up to 10,0	1,0 to 7,2	0,5 up to 7,0	1,0 up to 3,0	2,0 up to 8,0	0,75 up to 2,0
T. C. [ppm/°C]	-80 to +500	-80 to +500	±300	±20 (depends on the value)	±300	-80 to +500	-80 ; +500	±150 (depends on the value)
Tolerance ± [%]	5, 10	5, 10	5, 10	0,5, 1, 2, 5	1, 5	5, 10	5, 10	5, 10
Load Life ± [%]	3	3	5	3	5	3	3	5
Temperature Range [°C]	-55 ... +150	-55 ... +150	-25 ... +160	-55 ... +350	-55 ... +275	-55 ... +350	-55 ... +350	-55 ... +175
Size [mm]	<ul style="list-style-type: none"> <li>• 7x20</li> <li>• 7x25</li> <li>• 7x38</li> <li>• 9x25</li> <li>• 9x38</li> <li>• 9x50</li> <li>• 9x75</li> </ul>	<ul style="list-style-type: none"> <li>• 9x25</li> <li>• 9x38</li> <li>• 9x50</li> <li>• 9x75</li> </ul>	<ul style="list-style-type: none"> <li>• 9x13x25</li> <li>• 9x13x38</li> <li>• 12x13x35</li> </ul>	<ul style="list-style-type: none"> <li>• 3x9</li> <li>• 4x9,7</li> <li>• 4x14,5</li> <li>• 5,5x12,6</li> <li>• 8,5x15</li> <li>• 5,5x17</li> <li>• 8,5x18</li> <li>• 8,5x22</li> <li>• 8,5x27</li> </ul>	<ul style="list-style-type: none"> <li>• 2,6x6,8</li> <li>• 3,9x10</li> <li>• 5x12,5</li> <li>• 5,5x13</li> <li>• 6x16,5</li> <li>• 7x18,5</li> <li>• 9x26</li> </ul>	<ul style="list-style-type: none"> <li>• 4,5x16</li> <li>• 4,5x24</li> <li>• 4,5x32</li> </ul>	<ul style="list-style-type: none"> <li>• 18,2x10</li> <li>• 23,3x15</li> <li>• 33,4x25</li> <li>• 43,5x35</li> <li>• 53,7x45</li> </ul>	<ul style="list-style-type: none"> <li>• 3,6x9,9</li> <li>• 5,7x 14,3</li> </ul>
Packaging	Bulk	Bulk	Bulk	Taped	Taped	Taped	Bulk	Taped
Features	<ul style="list-style-type: none"> <li>• Pulse version available</li> </ul>	<ul style="list-style-type: none"> <li>• Pulse version available</li> </ul>		<ul style="list-style-type: none"> <li>• Precision type</li> <li>• Non-inductive type available</li> <li>• "Z" pre-forming</li> </ul>	<ul style="list-style-type: none"> <li>• Low-cost type</li> <li>• "Z" pre-forming</li> <li>• Non-inductive type available</li> </ul>	<ul style="list-style-type: none"> <li>• Noise suppressor version available</li> <li>• Pulse version available</li> <li>• Pre-forming available</li> </ul>	<ul style="list-style-type: none"> <li>• Fiberglass core</li> <li>• PCB pluggable style</li> <li>• Pulse version available</li> </ul>	<ul style="list-style-type: none"> <li>• "Z" pre-forming</li> <li>• Pre-forming available</li> <li>• High insulation voltage</li> </ul>
Applications	<p><b>Industry</b></p> <p><b>White goods</b></p> <p><b>Electronic equipment's</b></p>	<p><b>Industry</b></p> <p><b>White goods</b></p> <p><b>Electronic equipment's</b></p>	<p><b>Industry</b></p> <p><b>White goods</b></p> <p><b>Electronic equipment's</b></p>	<p><b>Automotive</b></p> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controller</li> </ul> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Consumer electronics</li> <li>• Power supply</li> <li>• Televisions</li> </ul> <p><b>General purpose</b></p>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controller</li> </ul> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Consumer electronics</li> <li>• Power supply</li> <li>• Televisions</li> </ul> <p><b>General purpose</b></p>	<p><b>Kitchen equipment's:</b></p> <ul style="list-style-type: none"> <li>• Percolators</li> <li>• Blenders</li> <li>• Mixers</li> <li>• Toasters</li> </ul> <p><b>Automotive</b></p> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Horns</li> <li>• Ignition</li> <li>• Instrument gauges</li> </ul> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Electronic energy meters</li> <li>• Power supplies</li> </ul>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Electronic energy meters</li> <li>• Consumer electronics</li> <li>• Power supply</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controller</li> </ul> <p><b>General purpose</b></p> <p><b>White goods</b></p>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Power supplies</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Motor controllers</li> </ul> <p><b>General purpose</b></p>






WIREWOUND RESISTORS

	COATED			MOULDED	VITREOUS ENAMEL	COATED		
	PULSE	FUSIBLE	FUSIBLE			HIGH POWER		
Product	CRP	CRF <sub>US</sub>	RF	BWF	RXG3	RXB	RXB1	RXB2
Picture								
Type	CRP252-1, CRP254-1 and CRP257-1	CRF251-4/8 to CRF257-4/8	RF03111W to RF05123W	BWF236-0 and BWF237-0	RXG3-70 and RXG3-130	RXB20 to RXB24	RXB1-40 to RXB1-180	RXB2-90
Resistance Range	0R022 up to 5K1	1R0 up to 330R	2R0 up to 120R	0R1 up to 1K0	5R1 up to 15K	0R1 up to 60K	0R1 up to 47K	0R1 up to 27K
Rated Power [W]	2,0 up to 5,0	1,0 up to 5,0	1,0 up to 3,0	0,75 up to 2,0	70 up to 130	40 up to 180	40 up to 180	90
T. C. [ppm/°C]	±120	±120	±300	±150 (depends on the value)	Depends on the value	Depends on the value	Depends on the value	Depends on the value
Tolerance ± [%]	0,5, 1, 2, 5	5	5	5, 10	5, 10	5, 10	5, 10	5, 10
Load Life ± [%]	3	5	5	5	5	5	5	5
Temperature Range [°C]	-55 ... +350	-55 ... +350	-25 ... +155	-55 ... +175	-55 ... +450	-55 ... +200	-50 ... +250	-55 ... +250
Size [mm]	<ul style="list-style-type: none"> <li>• 4x9,7</li> <li>• 5,5x12,6</li> <li>• 8,5x18</li> </ul>	<ul style="list-style-type: none"> <li>• 3x9</li> <li>• 4x9,7</li> <li>• 4x14,5</li> <li>• 5,5x12,6</li> <li>• 8,5x18</li> </ul>	<ul style="list-style-type: none"> <li>• 2,9x10,5</li> <li>• 3,9x14</li> <li>• 4,5x12</li> </ul>	<ul style="list-style-type: none"> <li>• 3,6x9,9</li> <li>• 5,7x 14,3</li> </ul>	<ul style="list-style-type: none"> <li>• 25x76,2</li> <li>• 33,3x101,6</li> </ul>	<ul style="list-style-type: none"> <li>• 64x10</li> <li>• 83x10</li> <li>• 120x10</li> <li>• 152x10</li> <li>• 184x10</li> </ul>	<ul style="list-style-type: none"> <li>• 86x37</li> <li>• 126x37</li> <li>• 156x37</li> <li>• 190x59</li> </ul>	<ul style="list-style-type: none"> <li>• 10x120</li> </ul>
Packaging	Taped	Taped	Taped	Taped	Bulk	Bulk	Bulk	Bulk
Features	<ul style="list-style-type: none"> <li>• "Z" pre-forming</li> <li>• Other pre-forming available</li> <li>• High pulse load up to 6[KV]</li> </ul>	<ul style="list-style-type: none"> <li>• Precision type</li> <li>• "Z" pre-forming</li> <li>• Other pre-forming available</li> <li>• High pulse load up to 6[KV]</li> <li>• 240[V] fusing application</li> </ul>	<ul style="list-style-type: none"> <li>• Low-cost fusible type</li> </ul>	<ul style="list-style-type: none"> <li>• "Z" pre-forming</li> <li>• Other pre-forming available</li> <li>• 240[V] fusing application available upon request</li> <li>• High insulation voltage</li> </ul>	<ul style="list-style-type: none"> <li>• Terminal suitable for soldering or bolt connection</li> <li>• Vitreous enamel coating</li> </ul>	<ul style="list-style-type: none"> <li>• Terminal suitable for bolt connection</li> </ul>	<ul style="list-style-type: none"> <li>• Terminal suitable for bolt connection</li> </ul>	<ul style="list-style-type: none"> <li>• Other power rating available upon request</li> </ul>
Applications	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Electronic energy meter</li> </ul> <p><b>General purpose</b></p> <p><b>White goods</b></p> <p><b>Industry</b></p>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Energy saving lamps</li> <li>• Battery chargers</li> <li>• Fusing Resistor</li> <li>• Electronic energy meters</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controllers</li> <li>• Fans</li> </ul>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Energy saving lamps</li> <li>• Battery chargers</li> <li>• Fusing Resistor</li> <li>• Power supply</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controllers</li> </ul>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Energy saving lamps</li> <li>• Battery chargers</li> <li>• Fusing Resistor</li> <li>• Power supply</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controllers</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Load resistors</li> <li>• Inrush current</li> <li>• Motor control</li> <li>• Load bank resistors</li> <li>• High power dissipation</li> <li>• Pulse handling capability</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Load resistors</li> <li>• Inrush current</li> <li>• Motor control</li> <li>• Load bank resistors</li> <li>• High power dissipation</li> <li>• Pulse handling capability</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Load resistors</li> <li>• Inrush current</li> <li>• Motor control</li> <li>• Load bank resistors</li> <li>• High power dissipation</li> <li>• Pulse handling capability</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Load resistors</li> <li>• Inrush current</li> <li>• Motor control</li> <li>• Load bank resistors</li> <li>• High power dissipation</li> <li>• Pulse handling capability</li> </ul>

WIREWOUND RESISTORS

ALUMINIUM HOUSING

HIGH POWER

Product	RE	RXL	RXLG				RXLV	BRU
Picture								
Type	RE605 to RE650	RXL60 to RXL120	RXLG40 to RXLG65 <sup>UL508</sup>	RXLG60 to RXLG500	RXLG800 to RXLG1800	RXLG2000 to RXLG3000	RXLV150	BRU2KW to BRU10KW
Resistance Range	0R1 up to 30K	1R0 up to 10K	0R5 up to 6K	0R5 up to 6K	0R1 up to 150R	1R5 up to 15R	0R5 up to 1K5	1R up to 1K
Rated Power [W]	5,0 up to 250	60 up to 120	40 up to 65	60 up to 500	800 up to 1800	2000 up to 3000	150	2400 up to 20000
T. C. [ppm/°C]	±20 ... ±100	±300	±400	±260	±40 ... ±300	±400	±260	Depends on the value
Tolerance ± [%]	0,25, 0,5, 1, 5, 10	5, 10	5, 10	5, 10	5, 10	20	5, 10	5, 10
Load Life ± [%]	5	3	5	5	5	5	5	---
Temperature Range [°C]	-55 ... +250	-55 ... +250	-40 ... +300	-40 ... +300	-40 ... +300	-40 ... +300	-40 ... +300	---
Size [mm]	<ul style="list-style-type: none"> <li>8,5x15,2</li> <li>10,7x19</li> <li>14x27</li> <li>16x50</li> <li>28x66</li> <li>46x89</li> <li>54x114</li> </ul>	<ul style="list-style-type: none"> <li>86x37</li> <li>126x37</li> <li>156x37</li> <li>190x59</li> </ul>	<ul style="list-style-type: none"> <li>350x107x50</li> <li>400x107x50</li> <li>450x107x50</li> <li>500x107x50</li> <li>580x107x50</li> </ul>	<ul style="list-style-type: none"> <li>115x40x20</li> <li>140x40x20</li> <li>165x40x20</li> <li>190x 40x20</li> <li>215x40x20</li> <li>165x60x30</li> <li>215x60x30</li> <li>265x60x30</li> <li>335x60x30</li> </ul>	<ul style="list-style-type: none"> <li>350x107x50</li> <li>400 x107x50</li> <li>450 x107x50</li> <li>500 x107x50</li> <li>580 x107x50</li> </ul>	<ul style="list-style-type: none"> <li>397x183x84</li> <li>795x304x142</li> </ul>	<ul style="list-style-type: none"> <li>212x40x21</li> </ul>	<ul style="list-style-type: none"> <li>500x480x147</li> <li>500x480x161</li> <li>600x560x172</li> <li>600x560x172</li> <li>600x560x172</li> <li>685x642x172</li> <li>685x642x172</li> <li>685x642x344</li> <li>685x642x344</li> </ul>
Packaging	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk	Bulk
Features	<ul style="list-style-type: none"> <li>Non-inductive winding available</li> <li>Molded construction for total environmental protection</li> </ul>	<ul style="list-style-type: none"> <li>Other high power rating available upon request</li> </ul>	<ul style="list-style-type: none"> <li>Other high power rating available upon request</li> <li>UL508 approved</li> </ul>	<ul style="list-style-type: none"> <li>High Voltage</li> <li>Brake resistor</li> </ul>	<ul style="list-style-type: none"> <li>High Voltage</li> <li>Brake resistor</li> </ul>	<ul style="list-style-type: none"> <li>High Voltage</li> <li>Brake resistor</li> <li>Other ohmic values available upon request</li> </ul>	<ul style="list-style-type: none"> <li>High power</li> <li>Chassis mount</li> </ul>	<ul style="list-style-type: none"> <li>High Voltage</li> <li>Brake resistor</li> </ul>
Applications	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Drilling equipment's</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Drilling equipment's</li> <li>Lift</li> <li>Generators</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Lift</li> <li>Generators</li> <li>Derrick</li> <li>Train</li> <li>Dynamic braking resistor</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Lift</li> <li>Generators</li> <li>Derrick</li> <li>Train</li> <li>Dynamic braking resistor</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Lift</li> <li>Generators</li> <li>Derrick</li> <li>Train</li> <li>Dynamic braking resistor</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Lift</li> <li>Generators</li> <li>Derrick</li> <li>Train</li> <li>Dynamic braking resistor</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Lift</li> <li>Generators</li> <li>Derrick</li> <li>Train</li> <li>Dynamic braking resistor</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>Load resistors</li> <li>Inrush current</li> <li>Motor control</li> <li>Load bank resistors</li> <li>High power dissipation</li> <li>Pulse handling capability</li> <li>Lift</li> <li>Generators</li> <li>Derrick</li> <li>Train</li> <li>Dynamic braking resistor</li> </ul>









FILM RESISTORS







CURRENT SENSOR

	CERAMIC CASE			MOULDED		COATED	OPEN FRAME	
	HIGH POWER			RTP	LTP	HIGH VOLTAGE	GENERAL PURPOSE	
	KWP	KWV	KWH			GF	PO	LPS
Product								
Picture								
Type	KWP330-X03 to KWP336-X03	KWV302-303 to KWV310-303	KWH2003 to KWH20003	RTP35 to RTP50	LTP100 to LTP150	GF0207 to GF0616	PO595-0 to PO590-0	LPS359-901 and LPS359-902
Resistance Range	390R up to 100K	390R up to 100K	390R up to 100K	0R1 up to 1M	0R1 up to 1M	10K up to 100M	0R1 - 10M	0R0007 up to 0R009
Rated Power [W]	3,0 up to 10,0	2,0 up to 10,0	2,0 up to 20	35 up to 50	100 up to 150	0,25 up to 3	1 up to 4	
T. C. [ppm/°C]	±250	±250	±350 up to ±500	±50 to ±250	±50 to ±250	±200	±50 up to ±200	
Tolerance ± [%]	5	2, 5	5, 10	0,5, 1, 5, 10	1, 2, 5, 10	1, 5	1, 2, 5	3
Load Life ± [%]	5	5	5	1	1	5	2	
Temperature Range [°C]	-55 ... +235	-55 ... +235	-55 ... +250	-55 ... +125	-55 ... +125	-55 ... +155	-55 ... +250	
Size [mm]	<ul style="list-style-type: none"> <li>• 23x10x10</li> <li>• 25x10x10</li> <li>• 28x10x10</li> <li>• 35x10x10</li> <li>• 43x10x10</li> <li>• 48x10x10</li> </ul>	<ul style="list-style-type: none"> <li>• 20,5x11x7</li> <li>• 25x12x8</li> <li>• 26x13x9</li> <li>• 39x13x9,5</li> <li>• 35x16x12</li> <li>• 51x13x9,5</li> </ul>	<ul style="list-style-type: none"> <li>• 17,5x6,5</li> <li>• 22x8</li> <li>• 22x9,5</li> <li>• 35x9,5</li> <li>• 48x9,5</li> <li>• 48x12,5</li> <li>• 63,5x12,5</li> </ul>	<ul style="list-style-type: none"> <li>• 5,2x10,2x4,5</li> </ul>	<ul style="list-style-type: none"> <li>• 20,7x14,5x5</li> </ul>	<ul style="list-style-type: none"> <li>• 6,3x2,4</li> <li>• 9,0x3,3</li> <li>• 11,5x4,5</li> <li>• 15,5x5,0</li> </ul>	<ul style="list-style-type: none"> <li>• 6,3x2,4</li> <li>• 9,0x3,9</li> <li>• 11,5x4,5</li> <li>• 16,5x6,0</li> <li>• 20,0x9,0</li> </ul>	<ul style="list-style-type: none"> <li>• 18x6,7x18,6</li> </ul>
Packaging	Bulk	Bulk	Bulk	Tube	Tube	Taped	Taped	Bulk
Features	<ul style="list-style-type: none"> <li>• Automotive grade</li> </ul>	<ul style="list-style-type: none"> <li>• Heat and flame resistant</li> <li>• Insulated</li> <li>• High resistance value</li> </ul>		<ul style="list-style-type: none"> <li>• TC=±50 and 150[ppm/°C] upon request</li> <li>• TO-220 package</li> </ul>	<ul style="list-style-type: none"> <li>• TC=±50 and 150[ppm/°C] upon request</li> <li>• TO-247 package</li> </ul>	<ul style="list-style-type: none"> <li>• High voltage</li> <li>• High pulse loading capability</li> </ul>	<ul style="list-style-type: none"> <li>• High power dissipation 4[W]</li> </ul>	<ul style="list-style-type: none"> <li>• Multi-terminal</li> <li>• High current</li> </ul>
Applications	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Power supply</li> <li>• Motor controllers</li> <li>• Inrush and surge applications</li> </ul> <p><b>Electronic equipment's</b></p>	<p><b>Industry</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• UPS</li> </ul> <p><b>Alternative energy</b></p>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Power supply</li> <li>• Motor controllers</li> <li>• Inrush and surge applications</li> </ul> <p><b>Electronic equipment's</b></p>	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Steering</li> <li>• Forklift</li> <li>• Crane</li> <li>• FHV - main inverters</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Industrial controls</li> <li>• Pre-loading/ Damping</li> <li>• Snubber/ Bleeder</li> <li>• Current sensing</li> </ul>	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Steering</li> <li>• Forklift</li> <li>• Crane</li> <li>• FHV - main inverters</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Industrial controls</li> <li>• Pre-loading/ Damping</li> <li>• Snubber/ Bleeder</li> <li>• Current sensing</li> </ul>	<p><b>Lighting:</b></p> <ul style="list-style-type: none"> <li>• Lamp ballast</li> </ul> <p><b>Special environment:</b></p> <ul style="list-style-type: none"> <li>• High humidity environment</li> </ul> <p><b>White goods</b></p> <p><b>Power supplies</b></p>	<p><b>Automotive</b></p> <p><b>Medical:</b></p> <ul style="list-style-type: none"> <li>• Medical electronic equipment</li> </ul> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• X-Ray</li> <li>• Copiers</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Ionization Chamber</li> <li>• Multipliers</li> <li>• Dividers</li> <li>• Power Supplies</li> <li>• Transformers</li> <li>• CRT's</li> </ul>	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Controls, EHPS, EPS and EPAS</li> <li>• Instrumentation</li> </ul>



CURRENT SENSOR						WIREWOUND		
OPEN FRAME			CERAMIC CASE			COATED		MOULDED
GENERAL PURPOSE						PULSE	FUSIBLE	
Product	KN	KNA	LPS	KN	SLR	RZI	RZS	RZF
Picture								
Type	KN350-0xx to KN352-0xx	KNA361-3 to KNA363-4	LPS355-0 to LPS359-xxx	KN350-8 to KN354-8	SLR2 to SLR10	RZI1, RZI2, RZI4	RZS1 to RZS6	RZF6, RZF7
Resistance Range	OR003 up to OR1	OR005 up to OR1	OR0005 up to OR068	OR003 up to OR1	OR01 up to 3R3	OR1 up to 5K1	1R0 up to 330R	OR1 up to 1K
Rated Power [W]	1 up to 3	1 up to 3	1 up to 8	4,5 up to 10	2,0 up to 10,0	2,0 up to 5,0	1,0 up to 4,0	0,75 up to 2,0
T. C. [ppm/°C]	±250 (depends on ohmic value)	±250 (depends on ohmic value)	[-80 ... +40 Other's upon request	±200 (depends on ohmic value)	±250	±120	±120	Depends on ohmic value
Tolerance ± [%]	1, 2, 3, 5	1, 3, 5	5 Other's upon request	1, 2, 3, 5	5, 10	0,5, 1, 2, 5	5	5, 10
Load Life ± [%]	3	3	<0,3	3	5	3	5	5
Temperature Range [°C]	-55 ... +300	-55 ... +300	-55 ... +35	-55 ... +250	-25 ... +155	-55 ... +350	-55 ... +350	-55 ... +175
Size [mm]	<ul style="list-style-type: none"> <li>• 12x3</li> <li>• 17,5x3</li> <li>• 29x3</li> </ul>	<ul style="list-style-type: none"> <li>• 11,43x8</li> <li>• 15x18</li> </ul>	<ul style="list-style-type: none"> <li>• Customized product</li> </ul>	<ul style="list-style-type: none"> <li>• 18x6,4</li> <li>• 25x6,4</li> <li>• 38x6,4</li> <li>• 25x9</li> <li>• 38x9</li> </ul>	<ul style="list-style-type: none"> <li>• 13x8x5</li> <li>• 13x13x5</li> <li>• 14x18x5</li> <li>• 26x20x5</li> </ul>	<ul style="list-style-type: none"> <li>• 5315</li> <li>• 6720</li> </ul>	<ul style="list-style-type: none"> <li>• 5318</li> <li>• 6720</li> <li>• 8424</li> </ul>	<ul style="list-style-type: none"> <li>• 6720</li> <li>• 8424</li> </ul>
Packaging	Bulk	Bulk	Bulk	Taped and Bulk	Bulk	Blister	Blister	Blister
Features	<ul style="list-style-type: none"> <li>• All welded construction</li> <li>• Very low inductance</li> <li>• Open frame design</li> <li>• Solderable terminals</li> </ul>	<ul style="list-style-type: none"> <li>• All welded construction</li> <li>• Very low inductance</li> <li>• Open frame design</li> <li>• Solderable terminals</li> </ul>	<ul style="list-style-type: none"> <li>• Very low inductance</li> <li>• Open frame design</li> <li>• Solderable terminals</li> </ul>	<ul style="list-style-type: none"> <li>• All welded construction</li> <li>• Very low inductance</li> <li>• High power to size ratio</li> <li>• Superior surge capability</li> </ul>	<ul style="list-style-type: none"> <li>• All welded construction</li> <li>• Very low inductance</li> <li>• Excellent frequency response</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent pulse capability, up to 6[KV]</li> <li>• Suitable for automatic pick and place</li> </ul>	<ul style="list-style-type: none"> <li>• Precision type</li> <li>• Competitive cost</li> <li>• High pulse load up to 6[KV]</li> <li>• 240[V] fusing application</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> <li>• Fusible type</li> <li>• High insulation voltage</li> </ul>
Applications	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Drive train</li> <li>• Alternators</li> <li>• DC/DC converters</li> <li>• Electrical vehicles</li> <li>• Hybrid vehicles</li> </ul> <p><b>Alternative energy:</b></p> <ul style="list-style-type: none"> <li>• Solar energy converter</li> <li>• Solar energy inverter</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Industrial control equipment</li> <li>• DC/DC converters</li> <li>• Variable frequency driver</li> </ul>	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Drive train</li> <li>• Alternators</li> <li>• DC/DC converters</li> <li>• Electrical vehicles</li> <li>• Hybrid vehicles</li> </ul> <p><b>Alternative energy:</b></p> <ul style="list-style-type: none"> <li>• Solar energy converter</li> <li>• Solar energy inverter</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Industrial control equipment</li> <li>• DC/DC converters</li> <li>• Variable frequency driver</li> </ul>	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Battery management</li> <li>• Air bags</li> <li>• Current sensors</li> <li>• Electric window-lift control</li> <li>• Motor controls</li> <li>• Feedback control</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Input resistor for PWM</li> <li>• Computer/Server power supply</li> <li>• Low inductive circuits</li> </ul>	<p><b>Aerospace</b></p> <p><b>Automotive</b></p> <ul style="list-style-type: none"> <li>• Drive train</li> <li>• Alternators</li> <li>• DC/DC converters</li> <li>• Electrical vehicles</li> <li>• Hybrid vehicles</li> </ul>	<p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Switch controls</li> <li>• Power supplies</li> <li>• Fans</li> </ul> <p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Air bags</li> <li>• DC/DC converters</li> </ul> <p><b>Alternative energy:</b></p> <ul style="list-style-type: none"> <li>• Wind energy</li> </ul>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> </ul> <p><b>General propose</b></p>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Energy saving lamps</li> <li>• Battery chargers</li> <li>• Fusing Resistor</li> <li>• Electronic energy meters</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controllers</li> <li>• Fans</li> </ul>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Energy saving lamps</li> <li>• Battery chargers</li> <li>• Fusing Resistor</li> <li>• Power supply</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controllers</li> </ul>

	WIREWOUND						FILM RESISTORS	
	COATED			MOULDED			COATED	
	GENERAL PURPOSE			FUSIBLE			HIGH VOLTAGE	GENERAL PURPOSE
Product	RZC	RZX	RWC	RZB	RWS	RWF	RZV	ZC
Picture								
Type	RZC1 to RZC6	RZX1 to RZX5	RWC5020	RZB4 and RZB5	RWS5020	RWF5020	RZV1 to RZV4	ZC0204 and ZC0207
Resistance Range	OR01 up to 5K1	OR1 up to 6K8	OR01 up to 220R	OR1 up to 2K4	1R0 up to 100R	OR1 up to 1K	10K up to 100M	OR16 up to 10M
Rated Power [W]	1,0 to 4,0	0,5 up to 5,0	2,2	0,75 up to 2,0	2,2	2,2	0,25 up to 3,0	0,25 up to 1,0
T. C. [ppm/°C]	±20 (depends on the value)	±300	±20 (depends on ohmic value)	Depends on ohmic value	±1000	±120	±200	±15 up to ±100
Tolerance ± [%]	0,5, 1, 2, 5	1, 5	1, 5	5, 10	5	5, 10	1, 5	0,1 up to 5
Load Life ± [%]	3	5	≤1	5	3	3	5	0,25 and 1,5
Temperature Range [°C]	-55 ... +350	-55 ... +275	-55 ... +200	-55 ... +175	-55 ... +200	-55 ... +200	-55 ... +155	-55 ... +155
Size [mm]	<ul style="list-style-type: none"> <li>• 5318</li> <li>• 6720</li> <li>• 8424</li> </ul>	<ul style="list-style-type: none"> <li>• 318</li> <li>• 6720</li> <li>• 8424</li> </ul>	<ul style="list-style-type: none"> <li>• 5020</li> </ul>	<ul style="list-style-type: none"> <li>• 6720</li> <li>• 8424</li> </ul>	<ul style="list-style-type: none"> <li>• 5020</li> </ul>	<ul style="list-style-type: none"> <li>• 5020</li> </ul>	<ul style="list-style-type: none"> <li>• 5315</li> <li>• 6720</li> <li>• 8424</li> </ul>	<ul style="list-style-type: none"> <li>• 0204</li> <li>• 0207</li> </ul>
Packaging	Blister	Blister	Blister	Blister	Blister	Blister	Blister	Blister
Features	<ul style="list-style-type: none"> <li>• Precision type</li> <li>• Competitive cost</li> <li>• Non-inductive type available</li> </ul>	<ul style="list-style-type: none"> <li>• Competitive cost</li> <li>• Non-inductive type available</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> <li>• All welded construction</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> <li>• High insulation voltage</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> <li>• All welded construction</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> <li>• All welded construction</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> <li>• 7.000[V] working voltage</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> </ul>
Applications	<p><b>Automotive</b></p> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controller</li> </ul> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Consumer electronics</li> <li>• Power supply</li> <li>• Televisions</li> </ul> <p><b>General purpose</b></p>	<p><b>Automotive</b></p> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controller</li> </ul> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Consumer electronics</li> <li>• Power supply</li> <li>• Televisions</li> </ul> <p><b>General purpose</b></p>	<p><b>Automotive</b></p> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controller</li> </ul> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Consumer electronics</li> <li>• Power supply</li> <li>• Televisions</li> </ul> <p><b>General purpose</b></p>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Power supplies</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Motor controllers</li> </ul> <p><b>General purpose</b></p>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Energy saving lamps</li> <li>• Battery chargers</li> <li>• Fusing Resistor</li> <li>• Electronic energy meters</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controllers</li> </ul>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Power supplies</li> <li>• Energy saving lamps</li> <li>• Battery chargers</li> <li>• Fusing Resistor</li> <li>• Electronic energy meters</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Surge protection</li> <li>• Motor controllers</li> </ul>	<p><b>Lighting:</b></p> <ul style="list-style-type: none"> <li>• Lamp ballast</li> <li>• Lighting control</li> </ul> <p><b>Special environment:</b></p> <ul style="list-style-type: none"> <li>• High humidity environment</li> </ul> <p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• FHV – main inverters</li> </ul> <p><b>White goods</b></p> <p><b>Power supplies</b></p>	<p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• Electronic energy meter</li> <li>• Power management</li> </ul> <p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Drive train/ starter</li> <li>• Alternator</li> <li>• DC/DC converter</li> <li>• Panel controls</li> <li>• FHV</li> </ul> <p><b>Medical:</b></p> <ul style="list-style-type: none"> <li>• Medical electronic equipment</li> </ul> <p><b>Avionics</b></p>

	FILM RESISTORS				CURRENT SENSOR	
	COATED	MOULDED		COATED		
	GENERAL PURPOSE	HIGH VOLTAGE	GENERAL PURPOSE			
Product	RZP	STP* UNDER DEVELOPMENT	RWP	RWN	STE	HTE
Picture						
Type	RZP0 to RZP5	STP35	RWP5020	RWN5020	STE0603 to STE3921	HTE3008 to HTE3618
Resistance Range	0R1 - 10M	0R01 up to 550K	1R up to 1M	0R002 up to 0R05	0R001 up to 0R800	0R001 up to 0R600
Rated Power [W]	1,0 up to 4,0	35	2,2	2,2	0,5 up to 5,0	3,0 up to 5,0
T. C. [ppm/°C]	±50 up to ±200	±250	±150	±250 (depends on ohmic value)	±40, ±70	±40, ±100
Tolerance ± [%]	1, 2, 5	1, 2, 5, 10	1, 5	1, 5	1, 2, 5	1, 3, 5
Load Life ± [%]	1,5	1	≤1,5	≤1	1	1
Temperature Range [°C]	-55 ... +235	-55 ... +175	-55 ... +200	-55 ... +200	-55 ... +170	-55 ... +170
Size [mm]	<ul style="list-style-type: none"> <li>• 5315</li> <li>• 6720</li> <li>• 8424</li> </ul>	<ul style="list-style-type: none"> <li>• 10x10x4,5</li> </ul>	<ul style="list-style-type: none"> <li>• 5020</li> </ul>	<ul style="list-style-type: none"> <li>• 5020</li> </ul>	<ul style="list-style-type: none"> <li>• 0603</li> <li>• 0805</li> <li>• 1206</li> <li>• 2010</li> <li>• 2512</li> <li>• 3921</li> </ul>	<ul style="list-style-type: none"> <li>• 3008</li> <li>• 3618</li> </ul>
Packaging	Blister	Blister	Blister	Blister	Blister	Blister
Features	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> <li>• TO-263 package</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> </ul>	<ul style="list-style-type: none"> <li>• Suitable for automatic pick and place</li> </ul>
Applications	<p><b>Medical:</b></p> <ul style="list-style-type: none"> <li>• Medical electronic equipment</li> </ul> <p><b>Military</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• X-Ray</li> <li>• Copiers</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Ionization Chamber</li> <li>• Multipliers</li> <li>• Dividers</li> <li>• Power Supplies</li> <li>• Transformers</li> <li>• CRT's</li> </ul>	<p><b>Automotive:</b></p> <ul style="list-style-type: none"> <li>• Steering</li> <li>• Forklift</li> <li>• Crane</li> <li>• FEV's - Charger</li> <li>• Battery management</li> </ul> <ul style="list-style-type: none"> <li>• High voltage BUS system</li> <li>• DC/DC converters</li> </ul>	<p><b>Medical:</b></p> <ul style="list-style-type: none"> <li>• Medical electronic equipment</li> </ul> <p><b>Military</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• X-Ray</li> <li>• Copiers</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Ionization Chamber</li> <li>• Multipliers</li> <li>• Dividers</li> <li>• Power Supplies</li> <li>• Transformers</li> <li>• CRT's</li> </ul>	<p><b>Automotive</b></p> <ul style="list-style-type: none"> <li>• Drive train</li> <li>• Alternators</li> <li>• DC/DC converters</li> <li>• Electrical vehicles</li> <li>• Hybrid vehicles</li> </ul> <p><b>Alternative energy:</b></p> <ul style="list-style-type: none"> <li>• Solar energy converter</li> <li>• Solar energy inverter</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Industrial control equipment</li> <li>• DC/DC converters</li> <li>• Variable frequency driver</li> </ul>	<p><b>Medical:</b></p> <ul style="list-style-type: none"> <li>• Medical electronic equipment</li> </ul> <p><b>Military</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• X-Ray</li> <li>• Copiers</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Ionization Chamber</li> <li>• Multipliers</li> <li>• Dividers</li> <li>• Power Supplies</li> <li>• Transformers</li> <li>• CRT's</li> </ul>	<p><b>Medical:</b></p> <ul style="list-style-type: none"> <li>• Medical electronic equipment</li> </ul> <p><b>Military</b></p> <p><b>Electronic equipment's:</b></p> <ul style="list-style-type: none"> <li>• X-Ray</li> <li>• Copiers</li> </ul> <p><b>Industry:</b></p> <ul style="list-style-type: none"> <li>• Ionization Chamber</li> <li>• Multipliers</li> <li>• Dividers</li> <li>• Power Supplies</li> <li>• Transformers</li> <li>• CRT's</li> </ul>