

Power Resistors: Aluminum Housed, HSC



CGS | CGS HS

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Passive Components > Resistors > Chassis Mount Resistors

HSC Family of Aluminium Housed Power Resistors 75W-300W dissipation capability, Gold anodization and Two mounting flanges.



Resistor Type: **Power Resistor**

Number of Terminations: **2**

Element Type: **Wire Wound**

Number of Resistors: **1**

Panel Mount Feature Type: **Flange with Mounting Holes**

HS Series is a range of extremely stable, high quality Wirewound resistors

capable of dissipating high power up to 300W (on a suitable heatsink) in a limited space with relatively low surface temperature.

Features

Product Type Features

Resistor Type	Power Resistor
Element Type	Wire Wound

Configuration Features

Number of Resistors	1
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Electrical Characteristics

Operating Voltage (VDC)	1900
Operating Voltage (VAC)	2500
Passive Component Tolerance (%)	1, 5
Resistance Class	1k Ω - 1M Ω , Up to 1k Ω
Resistance Value (Ω)	.044, .1, .18, .22, .27, .32, .39, .47, .5, .56, .68, .82, 1, 1K, 1.2K, 1.5, 1.5K, 2K, 2.2, 2.2K, 2.4, 2.5K, 2.7, 2.7K, 2.8, 3, 3K, 3.2, 3.3, 3.3K, 3.6, 3.9, 3.9K, 4, 4.3, 4.7, 4.7K, 5.6, 6, 6K, 6.4, 6.8, 6.8K, 8, 8.2, 10, 10K, 12, 12.4, 12.8, 14.4, 15, 16.6, 18, 18K, 20, 22, 22K, 25, 27, 33, 33K, 36, 39, 47, 47K, 50K, 56, 60, 68, 68K, 75, 82, 100, 100K, 120, 150, 180, 200, 204, 220, 250,

	270, 330, 360, 390, 440, 470, 560, 600, 680, 800, 820
Power Rating (W)	100, 150, 300

Termination Features

Number of Terminations	2
Chassis Mount Resistor Termination Type	M6 Threaded Stud, Solder Lug

Mechanical Attachment

Panel Mount Feature Type	Flange with Mounting Holes
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Dimensions

Product Height (mm)	26, 41
Product Height (in)	1.024, 1.614
Product Length (mm)	87.5, 180
Product Length (in)	3.445, 7.087
Product Width (mm)	47.5, 71.4
Product Width (in)	1.87, 2.811

Usage Conditions

Temperature Coefficient (ppm/°C)	±25, ±30, ±50
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Packaging Features

Packaging Method	Loose Piece - Box, Loose Piece - Tray
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Reference Number

TE Internal Number	CAT-C339-H85913B
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SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



HSC100 1K0 5%



HSC100 4R7 5%



HSC100 12R 5%



HSC100 1R0 1%

TE Part #	1-1625999-0	4-1625999-0	6-1625999-3	5-1625999-6
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
Passive Component Tolerance	5 %	5 %	5 %	1 %
Resistance Class	1k Ω - 1M Ω	Up to 1k Ω	Up to 1k Ω	Up to 1k Ω
Resistance Value	1K Ω	4.7 Ω	12 Ω	1 Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	± 30 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Product Height	26 mm	26 mm	26 mm	26 mm
Product Length	87.5 mm	87.5 mm	87.5 mm	87.5 mm
Product Width	47.5 mm	47.5 mm	47.5 mm	47.5 mm
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	CGS	CGS	CGS	CGS
Series	CGS HS	CGS HS	CGS HS	CGS HS

***EU RoHS Directive 2011/65/EU**

These products comply with the substance restrictions of the Restriction on Hazardous Substances Directive 2011/65/EU (RoHS2). The RoHS2 Directive requires that certain electrical and electronic equipment products do not contain mercury, cadmium, hexavalent chromium, PBB, PBDE, lead, DEHP, BBP, DBP and DIBP above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds. Finished electrical and electronic equipment products will be CE marked as required by the Directive. Components may not be CE marked.

****EU ELV Directive 2000/53/EC**

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Products (2 of 5)



HSC100 200R 5%



HSC100 4R0 5%



HSC100 5R6 5%



HSC100 60R 5%

TE Part #	6-1625999-5	6-1625999-4	8-1625999-1	7-1625999-2
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
Passive Component Tolerance	5 %	5 %	5 %	5 %
Resistance Class	Up to 1k Ω	Up to 1k Ω	Up to 1k Ω	Up to 1k Ω
Resistance Value	200 Ω	4 Ω	5.6 Ω	60 Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	± 30 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Product Height	26 mm	26 mm	26 mm	26 mm
Product Length	87.5 mm	87.5 mm	87.5 mm	87.5 mm
Product Width	47.5 mm	47.5 mm	47.5 mm	47.5 mm
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	CGS	CGS	CGS	CGS
Series	CGS HS	CGS HS	CGS HS	CGS HS

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Products (3 of 5)



HSC100 68K 5%



HSC100 68R 5%



HSC100 6R8 5%



HSC100 8R2 5%

TE Part #	7-1625999-4	4-1625999-4	4-1625999-8	4-1625999-9
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
Passive Component Tolerance	5 %	5 %	5 %	5 %
Resistance Class	1k Ω - 1M Ω	Up to 1k Ω	Up to 1k Ω	Up to 1k Ω
Resistance Value	68K Ω	68 Ω	6.8 Ω	8.2 Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	± 30 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Product Height	26 mm	26 mm	26 mm	26 mm
Product Length	87.5 mm	87.5 mm	87.5 mm	87.5 mm
Product Width	47.5 mm	47.5 mm	47.5 mm	47.5 mm
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	CGS	CGS	CGS	CGS
Series	CGS HS	CGS HS	CGS HS	CGS HS

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Products (4 of 5)



HSC100 R044 5%

HSC100 R10 5%

HSC100 R18 5%

HSC100 R22 5%

TE Part #	8-1625999-7	5-1625999-0	7-1625999-7	5-1625999-2
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
Passive Component Tolerance	5 %	5 %	5 %	5 %
Resistance Class	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ
Resistance Value	.044 Ω	.1 Ω	.18 Ω	.22 Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	±50 ppm/°C	±50 ppm/°C	±50 ppm/°C	±50 ppm/°C
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Product Height	26 mm	26 mm	26 mm	26 mm
Product Length	87.5 mm	87.5 mm	87.5 mm	87.5 mm
Product Width	47.5 mm	47.5 mm	47.5 mm	47.5 mm
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	CGS	CGS	CGS	CGS
Series	CGS HS	CGS HS	CGS HS	CGS HS

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Products (5 of 5)



HSC100 R27 5%



HSC100 R39 5%



HSC100 R47 5%



HSC100 R68 5%

TE Part #	6-1625999-0	7-1625999-9	5-1625999-3	7-1625999-8
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
Passive Component Tolerance	5 %	5 %	5 %	5 %
Resistance Class	Up to 1k Ω	Up to 1k Ω	Up to 1k Ω	Up to 1k Ω
Resistance Value	.27 Ω	.39 Ω	.47 Ω	.68 Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C	± 50 ppm/ $^{\circ}$ C
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Product Height	26 mm	26 mm	26 mm	26 mm
Product Length	87.5 mm	87.5 mm	87.5 mm	87.5 mm
Product Width	47.5 mm	47.5 mm	47.5 mm	47.5 mm
EU RoHS Directive 2011/65 /EU	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant	EU RoHS Compliant
EU ELV Directive 2000/53/EC	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant	EU ELV Compliant
Product Families	CGS	CGS	CGS	CGS
Series	CGS HS	CGS HS	CGS HS	CGS HS

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Also in the Series | CGS HS



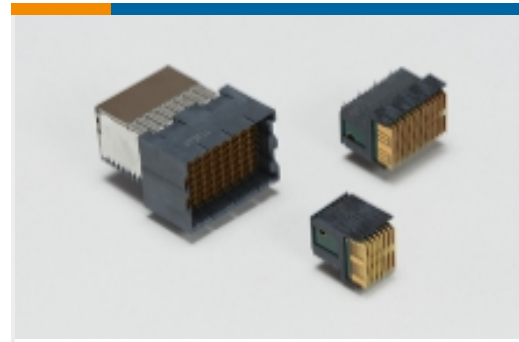
Automotive Housings(15)



Chassis Mount Resistors(603)



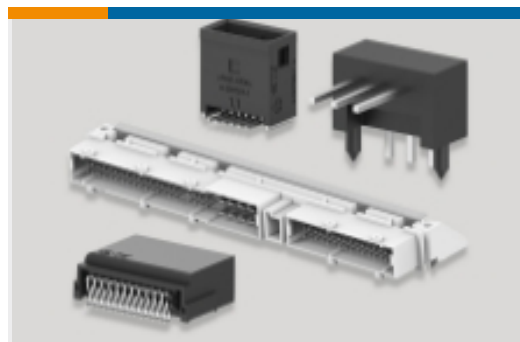
FFC Connectors(1)



High Speed Backplane Connectors(11)



Other Automotive Connector Accessories(1)



PCB Headers & Receptacles(2)



Plug & Socket Lighting Connector Accessories(1)



RJ45 Connectors(1)



Wire-to-Board Connector Assemblies & Housings(1)