

Power Resistors: Aluminium Housed, HSC



CGS | CGS HS
[View on TE.com >](#)

Passive Components > Resistors > Chassis Mount Resistors

HSC Family of Aluminium Housed Power Resistors 75W-500W dissipation capability, Gold anodization and two mounting flanges.



Resistor Type: **Power Resistor**
Element Type: **Wire Wound**
Number of Terminations: **2**
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 500W (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
---------------------	---

Electrical Characteristics

Operating Voltage (VDC)	1400, 1900, 2500
Operating Voltage (VAC)	2500
Resistance Class	1kΩ - 1MΩ, Up to 1kΩ
Resistance Value (Ω)	.044, .056, .068, .082, .1, .12, .15, .18, .22, .27, .32, .33, .39, .47, .5, .56, .68, .82, 1, 1K, 1.2, 1.2K, 1.5, 1.5K, 1.8, 1.8K, 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, 5.6K, 6, 6K, 6.4, 6.8, 6.8K, 8, 8.2, 8.2K, 10, 10K, 12, 12K, 12.4, 12.8, 14.4, 15, 15K, 16.6, 18, 18K, 20, 22, 22K, 25, 27, 27K, 33, 33K, 36, 39, 39K, 47, 47K, 50K, 56, 56K, 60, 68, 68K, 75, 82, 82K, 100, 100K, 120, 150, 180, 200, 204,



	220, 250, 270, 330, 360, 390, 440, 470, 560, 600, 680, 800, 820
Power Rating (W)	75, 100, 150, 300, 350, 400, 450, 500
Passive Component Tolerance (%)	1, 5

Termination Features

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

Mechanical Attachment

Panel Mount Feature Type	Flange with Mounting Holes
--------------------------	----------------------------

Dimensions

Product Height (mm)	23, 26, 41
Product Height (in)	.906, 1.024, 1.614
Product Length (mm)	78, 87.5, 93, 125.6, 180, 196, 215, 234, 253
Product Length (in)	3.071, 3.445, 3.661, 4.945, 7.087, 7.717, 8.465, 9.213, 9.961
Product Width (mm)	47, 47.5, 71.4
Product Width (in)	1.85, 1.87, 2.811

Usage Conditions

Operating Temperature Range (°C)	-55 - 200
Temperature Coefficient (ppm/°C)	±25, ±30, ±50

Packaging Features

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

Reference Number

TE Internal Number	CAT-C339-H85913B
--------------------	------------------

SEE PRODUCTS ON NEXT PAGE



Products (1 of 5)



	HSC300 100R 5%	HSC100 1R5 5%	HSC100 10R 5%	HSC100 1R0 5%
TE Part #	1630027-1	1-1625999-5	1625999-3	1-1625999-4
Resistance Class	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ
Resistance Value	100 Ω	1.5 Ω	10 Ω	1 Ω
Power Rating	300 W	100 W	100 W	100 W
Temperature Coefficient	±50 ppm/°C	±50 ppm/°C	±50 ppm/°C	±50 ppm/°C
Passive Component Tolerance	5 %	5 %	5 %	5 %
Chassis Mount Resistor Termination Type	M6 Threaded Stud	Solder Lug	Solder Lug	Solder Lug
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
Product Height	41 mm	26 mm	26 mm	26 mm
Product Length	180 mm	87.5 mm	87.5 mm	87.5 mm
Product Width	71.4 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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



Products (2 of 5)



HSC100 220R 5%



HSC100 22R 5%



HSC100 2R2 5%



HSC100 2R7 5%

TE Part #	1-1625999-8	2-1625999-0	2-1625999-6	2-1625999-7
Resistance Class	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ
Resistance Value	220 Ω	22 Ω	2.2 Ω	2.7 Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	±30 ppm/°C	±50 ppm/°C	±50 ppm/°C	±50 ppm/°C
Passive Component Tolerance	5 %	5 %	5 %	5 %
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



Products (3 of 5)



HSC100 470R 5%



HSC100 12R 5%



HSC100 15R 5%



HSC100 16R6 5%

TE Part #	3-1625999-4	6-1625999-3	1625999-6	1625999-7
Resistance Class	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ	Up to 1kΩ
Resistance Value	470 Ω	12 Ω	15 Ω	16.6 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
Passive Component Tolerance	5 %	5 %	5 %	5 %
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



Products (4 of 5)



HSC100 18R 5%



HSC100 1K2 5%



HSC100 1R0 1%



HSC100 20R 5%

TE Part #	1625999-9	1-1625999-1	5-1625999-6	1-1625999-7
Resistance Class	Up to 1kΩ	1kΩ - 1MΩ	Up to 1kΩ	Up to 1kΩ
Resistance Value	18 Ω	1.2K Ω	1 Ω	20 Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	±50 ppm/°C	±30 ppm/°C	±50 ppm/°C	±50 ppm/°C
Passive Component Tolerance	5 %	5 %	1 %	5 %
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



Products (5 of 5)



HSC100 25R 5%



HSC100 2K2 5%



HSC100 33R 5%



HSC100 3K9 5%

TE Part #	2-1625999-1	2-1625999-4	2-1625999-9	5-1625999-7
Resistance Class	Up to 1kΩ	1kΩ - 1MΩ	Up to 1kΩ	1kΩ - 1MΩ
Resistance Value	25 Ω	2.2K Ω	33 Ω	3.9K Ω
Power Rating	100 W	100 W	100 W	100 W
Temperature Coefficient	±50 ppm/°C	±30 ppm/°C	±50 ppm/°C	±30 ppm/°C
Passive Component Tolerance	5 %	5 %	5 %	5 %
Chassis Mount Resistor Termination Type	Solder Lug	Solder Lug	Solder Lug	Solder Lug
Packaging Method	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray	Loose Piece - Tray
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

These products comply with the substance restrictions of the End of Life Vehicles Directive 2000/53/EC (ELV). The ELV Directive requires that materials and components of vehicles do not contain mercury, cadmium, hexavalent chromium, and lead above defined thresholds. Products indicated as 'Compliant' do not contain any of these substances above the prohibition thresholds.



Related Materials

[Data Sheet](#)

[Aluminium Housed Power Resistors - Type HS Series](#)
[English](#)

Also in the Series | CGS HS



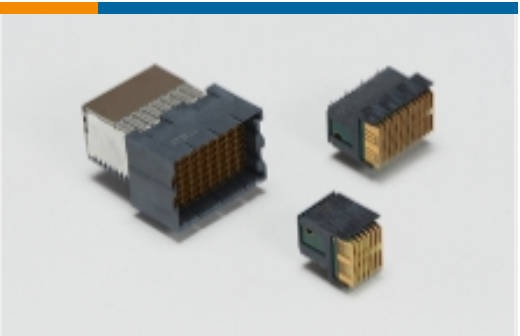
Automotive Housings(9)



Chassis Mount Resistors(1068)



FFC Connectors(1)



High Speed Backplane Connectors(10)



Plug & Socket Lighting Connector
Accessories(1)



RJ45 Connectors(1)



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

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[TE Connectivity:](#)

[HSC1004R7J](#)