

# MEGGITT CGS

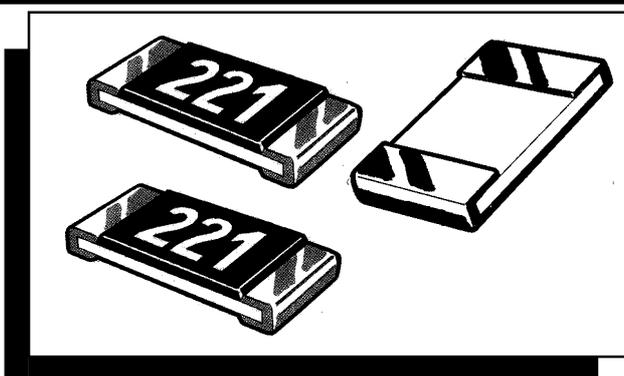
HIGH VOLTAGE RESISTORS  
HIGH VALUE RESISTORS  
HIGH POWER RESISTORS  
ALUMINIUM CLAD RESISTORS  
CURRENT SENSE RESISTORS

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## SMD Power Resistors

### TYPE 3520 SERIES

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Meggitt CGS is pleased to introduce this low cost high power device, suitable for auto placement in volume, and for most applications, including high frequency operations, owing to the short lead structure. It is attractively priced and available on 7" reels of 4000 pieces.

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### MEGGITT CGS KEY FEATURES

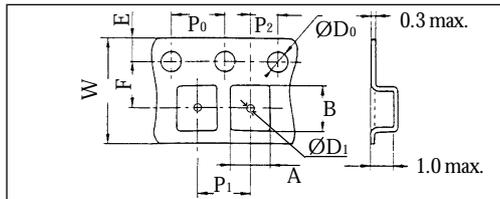
- 1 WATT AT 70°C
  - SMALL SIZE TO POWER RATIO
  - SUPPLIED ON TAPE
  - AVAILABLE VIA DISTRIBUTION
  - VALUE MARKED ON RESISTOR
  - ATTRACTIVELY PRICED
  - 400 VOLT MAXIMUM OVERLOAD
  - 200 VOLT WORKING VOLTAGE
  - LABORATORY KIT AVAILABLE
  - LOW PROFILE
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ELECTRICAL

Series	Power Rating at 70°C	Max. RCWV (Note 1)	Max. Overload Voltage	Resistance Tolerance (%)	Resistance Range		Temperature Coefficient	Resistance Value Grid
					Min.	Max.		
3520	**1 Watt (See Note 2)	200V	400V	±2%, ±5% ±5%	10R ~ 1M0	1R0 ~ 9R1	±200ppm ±350ppm	E-24

**Note 1.** Rated continuous working voltage (RCWV) shall be determined from  $RCWV = \sqrt{\text{Rated Power} \times \text{Resistance Value}}$ , or Maximum RCWV listed above, whichever less.

PACKAGING SPECIFICATION



Packaging Quantity

4000 Pieces per 7" Reel

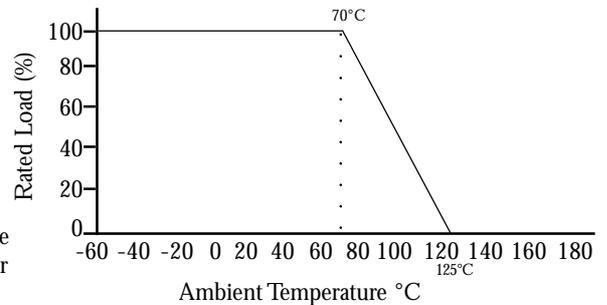
	A	B	W	F	E	P <sub>1</sub>	
(mm)	1 W	3.40 ±0.10	6.60 ±0.10	12.0 ±0.30	5.50 ±0.05	1.75 ±0.10	4.00 ±0.10

POWER DERATING CURVE

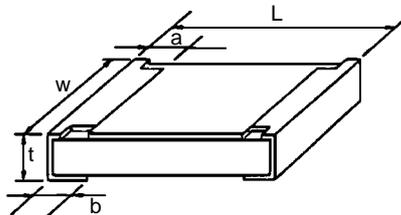
For resistors operated in ambient temperatures above 70°C, power rating must be derated in accordance with the curve right.

\*\*RECOMMENDED CIRCUIT BOARD DESIGN - NOTE 2

If this device is anticipated to run at full continuous power then action to improve the cooling should be taken. This can be a metal substrate, copper pad left under the chip, an opening in the PCB or enlarged silver conductor pads each end.



DIMENSIONS



Handling Recommendations.

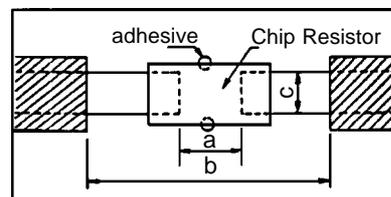
When flow soldering - the land width must be smaller than the Chip Resistor width to properly control the solder application.

Generally, the land width can be Chip Resistor width (W) x 0.7 to 0.8.

When reflow soldering - solder application amount can be adjusted. Thus the land width can be set to W x 1.0 to 1.3

Part No.	Dimensions (mm)				
	L	W	a	b	t
3520	6.40 ±0.20	3.20 ±0.20	0.70 ±0.10	0.70 ±0.20	0.60 ±0.10

Dimensions (mm)		
a	b	c
3.6 - 4.0	7.6 - 8.6	2.3 - 3.5



HOW TO ORDER

Common Part	Resistance Value	Tolerance	Pack Style
3520	1 ohm    1000 milli ohms    1R0 1K Ohm    1000 ohms    1K0 1 Meg Ohm    1000000 ohms    1M0	G - 2% J - 5%	TG - Cut Tape Lengths T - 4000



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