



### zero ohm melf resistor

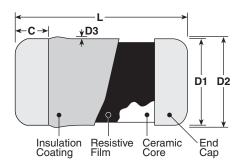




#### features

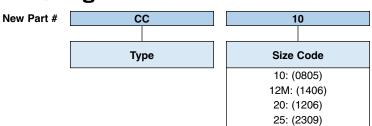
- Extremely low resistance
- Higher electrode strength and lower current noise ratio than flat chip resistors
- · Marking: Blue body color with no marking
- Products with lead-free terminations meet EU RoHS requirements. EU RoHS regulation is not intended for Pb-glass contained in electrode, resistor element and glass.
- AEC-Q200 Qualified: CC12M, CC25 only

#### dimensions and construction



Туре	Dimensions inches (mm)				
(Inch/DIN Size Code)	L	С	D1	D2 (max.)	D3 (max.)
CC10	.079±.004	.012	.049±.002	. <b>053</b>	.003
(0805/0102)	(2.0±0.1)	(0.3 min.)	(1.25±0.05)	(1.35)	(0.07)
CC12M	.138±.008	.02 ~ .035	.055±.004	.061	.004
(1406/0204)	(3.5±0.2)	(0.5 ~ 0.9)	(1.4±0.1)	(1.55)	(0.1)
CC20	.126±.008	.02	.061±.006	.069	.004
(1206/0203)	(3.2±0.2)	(0.5 min.)	(1.55±0.15)	(1.75)	(0.1)
CC25	.232±.008	.02	.087±.004	.094	.006
(2309/0207)	(5.9±0.2)	(0.5 min.)	(2.2±0.1)	(2.4)	(0.15)

## ordering information



T	
Termination Material	
T: Sn	7

TE				
Packaging				
TE: 7" embossed plastic				

For further information on packaging, please refer to Appendix A.





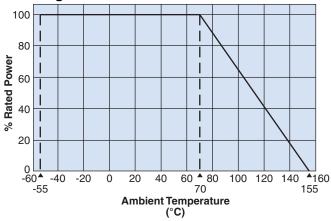
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### applications and ratings

Part Designation	Maximum Current	Maximum Resistance	Rated Ambient Temperature	Operating Temperature Range
CC10		20 mΩ or less	+70°C	-55°C to +155°C
CC12M	2 Amps			
CC20				
CC25	5 Amps			

### environmental applications





For resistors operated at an ambient temperature of 70°C or above, maximum allowable current shall be derated in accordance with the above derating curve.

#### **Performance Characteristics**

	Requirement $\Delta$ Real R		
Parameter	Limit	Typical	Test Method
Resistance			25°C
Resistance to Solder Heat			260°C ± 5°C, 10 seconds ± 1 second
Rapid Change of Temperature	20m $\Omega$ Max. after the test	7.5m $\Omega$ Max. after the test	-55°C (30 minutes), +125°C (30 minutes), 5 cycles
Moisture Resistance			40°C ± 2°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance at 70°C			70°C ± 2°C, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle