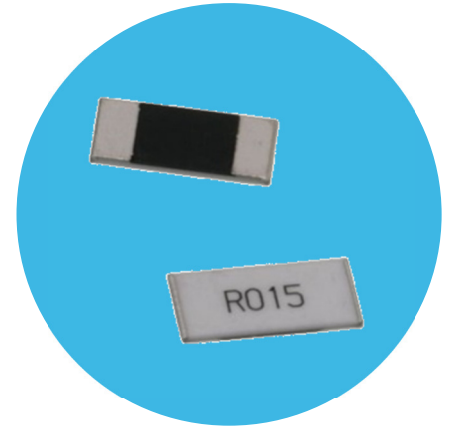


Fast Facts

MFC4320 – Metal Foil on Ceramic Chip Resistors

MFC4320 is a metal foil on ceramic chip resistor in 4320 size with values from 2 to 50mΩ, aimed at current sense applications.

The high power rating of 5W means that this is ideal for highly compact current sensing in the 1 to 50A range.



Market Segments

- Industrial
- Medical

Applications

- Power supplies
- DC-DC convertors
- Motor invertors
- HVAC systems
- Lighting drivers

Features

- High power 5W
- High stability foil on ceramic
- Values R002 to R05 at 1% tolerance
- TCR down to $\pm 30\text{ppm}/^\circ\text{C}$
- Low temperature rise

Benefits

- Low ohmic values to R002 minimise power loss.
- Low TCR improves the temperature stability of the circuit.
- Metal foil on ceramic technology has better surge tolerance than thick-film, enhancing product reliability.
- Metal foil on ceramic technology has lower self-heating than thick-film or metal strip, enhancing product reliability.

Our Advantage

For circuit designers who need to make stable current measurements up to 50A in a compact circuit we provide MFC4320 which provides lower power loss and lower temperature sensitivity than key competing parts as demonstrated in Appendix 1.

BI Technologies IRC Welwyn

Fast Facts

Appendix 1 Competitor Cross Reference

MFC4320 has very limited competition, with a number of significant players having no product in this size. Relative to the competing part identified, MFC4320 offers wider ohmic value range and lower TCR:

		Ohmic Value Range (mΩ)	TCR (±ppm/°C)
TTE	MFC4320	3 - 150	30
SEI	CSRF4320	10 - 33	50

Appendix 2 Search Keywords

current sense	metal foil	chip resistor
high power	milliohm	low TCR
current measurement	shunt	4320 chip