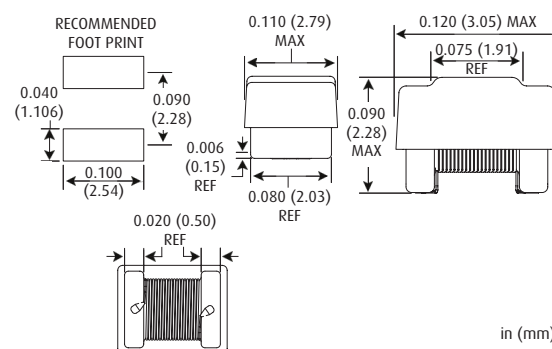


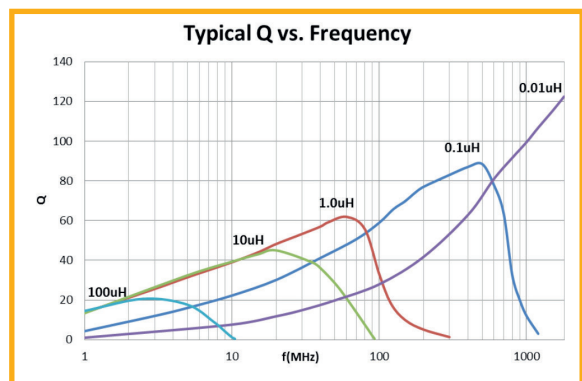
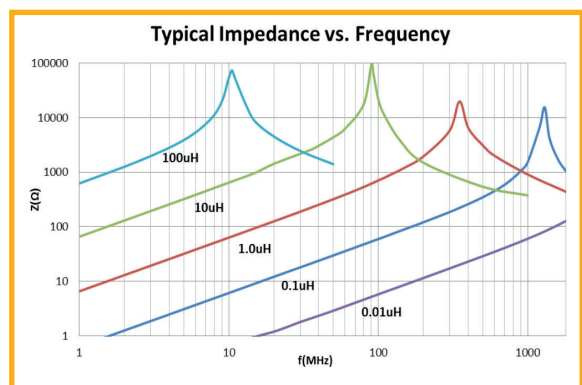
# CC4H1008 SERIES

Ceramic High Performance Surface Mount Chip Inductor



in (mm)

| PART NUMBER    | L nH | L TEST FREQ MHz | Q MIN | Q TEST FREQ MHz | SRF MHz MIN | DCR $\Omega$ MAX | CURRENT RATING mA DC |
|----------------|------|-----------------|-------|-----------------|-------------|------------------|----------------------|
| CERAMIC CORE   |      |                 |       |                 |             |                  |                      |
| CC4H1008-0082M | 8.2  | 50              | 50    | 500             | 3200        | 0.090            | 1840                 |
| CC4H1008-010K  | 10   | 50              | 50    | 500             | 3100        | 0.090            | 1840                 |
| CC4H1008-012K  | 12   | 50              | 55    | 500             | 3000        | 0.100            | 1740                 |
| CC4H1008-015K  | 15   | 50              | 60    | 400             | 2800        | 0.100            | 1740                 |
| CC4H1008-018K  | 18   | 50              | 65    | 350             | 2600        | 0.110            | 1600                 |
| CC4H1008-022K  | 22   | 50              | 70    | 350             | 2400        | 0.110            | 1600                 |
| CC4H1008-027K  | 27   | 50              | 70    | 350             | 2200        | 0.120            | 1520                 |
| CC4H1008-033K  | 33   | 50              | 70    | 350             | 2000        | 0.130            | 1460                 |
| CC4H1008-039K  | 39   | 50              | 75    | 350             | 1800        | 0.140            | 1340                 |
| CC4H1008-047K  | 47   | 50              | 75    | 350             | 1550        | 0.140            | 1340                 |
| CC4H1008-056J  | 56   | 50              | 75    | 350             | 1400        | 0.160            | 1260                 |
| CC4H1008-068J  | 68   | 50              | 70    | 350             | 1300        | 0.180            | 1190                 |
| CC4H1008-082J  | 82   | 50              | 70    | 350             | 1200        | 0.200            | 1120                 |
| CC4H1008-100J  | 100  | 25              | 70    | 350             | 1100        | 0.210            | 1100                 |



## NOTES

- Operating Temperature Range: -55°C to +125°C
- Current Rating is based on a 35°C temperature rise at an ambient temperature of 90°C
- Weight MAX: 0.035 grams
- Suitable for reflow soldering
- Flat top cover for pick and place
- Excellent for high frequency applications
- No internal solder connection increases reliability
- Very tight distribution within lots
- Extremely high SRF; Exceptional Q
- High current handling capability
- Low DC resistance
- Materials are fungus-inert to meet method 508 of MIL-STD-810H
- Custom designs are available to meet your specific requirements; please contact factory

## PART NUMBER DERIVATION

GEC Series **CC4H1008 0082 M**

Inductance: 2 signif. digits & mult.  
ex: 010 = 10nH, 100 = 100nH

Tolerance: M =  $\pm 20\%$ , K =  $\pm 10\%$ , J =  $\pm 5\%$   
(Table shows lowest standard tolerance option)  
Optional tolerances are available; contact factory

Termination: Gold over Nickel (standard and RoHS compliant)

## TAPE AND REEL SPECS

|                      |       |
|----------------------|-------|
| Pieces/reel maximum: | 2000  |
| Pitch between parts: | 4 mm  |
| Tape width:          | 8 mm  |
| Reel diameter:       | 7 in. |