

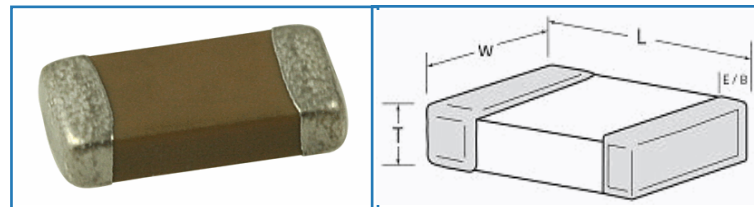
# DATASHEET

## C0201X5R6R3-104MNP

GENERAL PURPOSE CERAMIC CAPACITORS (C SERIES)  
0201, X5R, 6.3V, 0.1uF, ±20%, 100% matte Tin(Sn) over Nickel



VENKEL LTD.



### SIZE SPECIFICATIONS units: inches

|            |       |
|------------|-------|
| Length:    | 0.024 |
| Width:     | 0.012 |
| T(max):    | 0.012 |
| Min E/B:   | 0.002 |
| Size(EIA): | 0201  |

### COMPONENT SPECIFICATIONS

|                    |                                |
|--------------------|--------------------------------|
| Category:          | Ceramic Capacitors             |
| Series:            | General Purpose (C Series)     |
| Size:              | 0201                           |
| Dielectric:        | X5R                            |
| Voltage:           | 6.3V                           |
| Capacitance:       | 0.1uF                          |
| Tolerance:         | ±20%                           |
| Termination:       | 100% matte Tin(Sn) over Nickel |
| Packaging:         | P                              |
| Quantity per Reel: | 15,000                         |

### DIELECTRIC SPECIFICATIONS

|                                 |                               |
|---------------------------------|-------------------------------|
| Temperature Coefficient:        | 0 ±15%Δ°C MAX                 |
| Temperature Voltage Coefficient | X5R not applicable            |
| Ageing:                         | 2.5% per decade hour, typical |
| Withstanding Voltage:           | 2.5 times VDCW                |
| Operating Temp:                 | -55°C to +85°C                |
| Dissipation Factor:             | See C Series Datasheet        |

### ENVIRONMENTAL INFORMATION

|                            |                       |
|----------------------------|-----------------------|
| RoHS Status                | 6 of 6 Compliant      |
| REACH Status               | Compliant             |
| Halogen Status             | Halogen Free          |
| Conflict Mineral Status    | Conflict Mineral Free |
| Moisture Sensitivity Level | MSL1                  |

### REFLOW PROFILE

|                          |        |
|--------------------------|--------|
| Max Reflow Temperature   | 260 °C |
| Number of Reflow Cycles  | 2      |
| Time at Max Reflow Temp. | 10 sec |

### REEL DIMENSIONS units: mm

| Tape | B min | C        | A(7")     | A(13")    | D Min | N Min | G        | T max |
|------|-------|----------|-----------|-----------|-------|-------|----------|-------|
| 8mm  | 0.30  | 13 ± .05 | 178 ± 2.0 | 330 ± 2.0 | 20.20 | 50.00 | 10 ± 1.5 | 14.90 |

### TAPING SPECIFICATIONS units: mm

| A                | B           | W         | F          | E          | Po        |
|------------------|-------------|-----------|------------|------------|-----------|
| 0.37 ± 0.05      | 0.67 ± 0.05 | 8.0 ± 0.2 | 3.5 ± 0.1  | 1.75 ± 0.1 | 4.0 ± 0.1 |
| Pz               | D           | T         | P          | To         | T(E)      |
| 2.0 ± 0.05 - 0.0 | 1.5 ± 0.1   | 1.15 MAX  | 2.0 ± 0.05 |            |           |