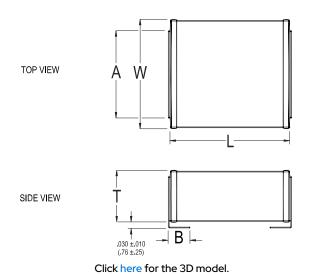


## SM20B102K202BM

Aliases (SM20B102K202M) KPS SM SMD Indust X7R HV, Ceramic, 1,000 pF, 10%, 2,000 VDC, X7R, SM20



| General Information     |   |
|-------------------------|---|
| Series                  | KPS SM SMD Indust X7R HV                              |
| Style                   | Stacked Chip  |
| Description             | SMD, Fixed, High Volt, Low ESR,<br>Leaded, Mil-Screen |
| Features                | Low ESR, Mil-Screen                                   |
| RoHS                    | With Exemptions                                       |
| REACH                   | SVHC (Pb - CAS 7439-92-1)                             |
| Termination             | Silver  |
| Testing and Reliability | Level A   |
| AEC-Q200                | No  |
| Chip Size               | SM20  |
| Shelf Life              | 78 Weeks  |
| MSL                     | 1   |

| Dimensions               |                    |
|--------------------------|--------------------|
| L                        | 3.81mm +/-0.381mm  |
| W                        | 3.81mm +/-0.381mm  |
| Т                        | 3.302mm MAX        |
| Α                        | 2.54mm MAX         |
| В                        | 1.016mm +/-0.254mm |
|                          |                    |
| Packaging Specifications | l e                |
| Packaging                | Tray               |
| Packaging Quantity       | 50                 |

| Specifications   |                     |
|--|---------------------|
| Capacitance  | 1,000 pF            |
| Measurement Condition  | 1 kHz 1.0Vrms       |
| Tolerance  | 10%                 |
| Voltage DC   | 2000 VDC            |
| Dielectric Withstanding Voltage  | 2,400 VDC           |
| Temperature Range  | -55/+125°C          |
| Temp. Coefficient  | X7R                 |
| Capacitance Change with<br>Reference to +25°C and 0 VDC<br>Applied (TCC) | 15%, 1kHz 1.0Vrms   |
| Dissipation Factor   | 2.5% 1 kHz 1.0Vrms  |
| Aging Rate   | 3% Loss/Decade Hour |
| Insulation Resistance  | 100 GOhms           |

Statements of suitability for certain applications are based on our knowledge of typical operating conditions for such applications, but are not intended to constitute - and we specifically disclaim - any warranty concerning suitability for a specific customer application or use. This Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by us with reference to the use of our products is given gratis, and we assume no obligation or liability for the advice given or results obtained.

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