



## TPB series characteristics list

| Size code | Part number | Rated voltage (V) | Rated temperature (°C) | Rated capacitance (μF) | Category voltage (V) | Category temperature (°C) | DF (% max) | LC (μA) max/5min. | ESR (mΩ max) 100kHz/20°C | Maximum allowable ripple current (mA rms) 100kHz※1 | MSL |    |
|-----------|-------------|-------------------|------------------------|------------------------|----------------------|---------------------------|------------|-------------------|--------------------------|----------------------------------------------------|-----|----|
| B2        | 10TPB47M    | 10                | 105                    | 47                     | 10                   | 105                       | 8.0        | 47.0              | 70                       | 1100                                               | 3   | 3  |
|           | 10TPB33M    | 10                | 105                    | 33                     | 10                   | 105                       | 8.0        | 33.0              | 70                       | 1100                                               | 3   | 3  |
|           | 6TPB68M     | 6.3               | 105                    | 68                     | 6.3                  | 105                       | 8.0        | 42.8              | 70                       | 1100                                               | 3   | 3  |
|           | 4TPB68M     | 4.0               | 105                    | 68                     | 4.0                  | 105                       | 8.0        | 27.2              | 70                       | 1100                                               | 3   | 3  |
| D3L       | 10TPB220ML  | 10                | 105                    | 220                    | 10                   | 105                       | 10         | 220.0             | 40                       | 2000                                               | —   | 2a |
|           | 10TPB150ML  | 10                | 105                    | 150                    | 10                   | 105                       | 10         | 150.0             | 40                       | 2000                                               | 3   | 2a |
|           | 6TPB330ML   | 6.3               | 105                    | 330                    | 6.3                  | 105                       | 10         | 207.9             | 40                       | 2000                                               | 3   | 2a |
|           | 6TPB330MAL  | 6.3               | 85                     | 330                    | 5.0                  | 105                       | 10         | 207.9             | 40                       | 2000                                               | 3   | 2a |
|           | 6TPB220ML   | 6.3               | 105                    | 220                    | 6.3                  | 105                       | 10         | 138.6             | 40                       | 2000                                               | 3   | 2a |
|           | 4TPB330ML   | 4.0               | 105                    | 330                    | 4.0                  | 105                       | 10         | 132.0             | 40                       | 2000                                               | 3   | 2a |
| D4        | 10TPB330M   | 10                | 105                    | 330                    | 10                   | 105                       | 10         | 330.0             | 35                       | 3000                                               | —   | 2a |
|           | 10TPB220M   | 10                | 105                    | 220                    | 10                   | 105                       | 10         | 220.0             | 40                       | 3000                                               | 3   | 2a |
|           | 6TPB470M    | 6.3               | 105                    | 470                    | 6.3                  | 105                       | 15         | 296.1             | 35                       | 3000                                               | 3   | 2a |
|           | 6TPB330M    | 6.3               | 105                    | 330                    | 6.3                  | 105                       | 10         | 207.9             | 40                       | 3000                                               | 3   | 2a |

※1 100k to 500kHz, 45°C