



# Polymer Chip Capacitor

## TOPcap – Basic

**Series/Type:**    **B760**

Date:                June 2005  
Version:            1



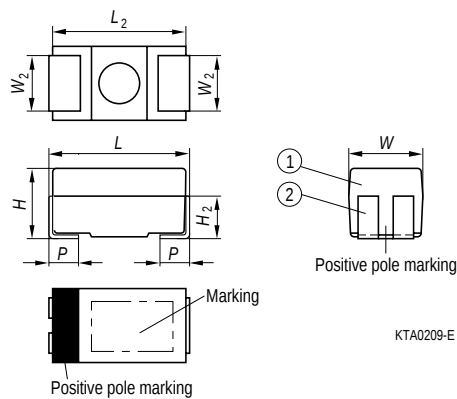
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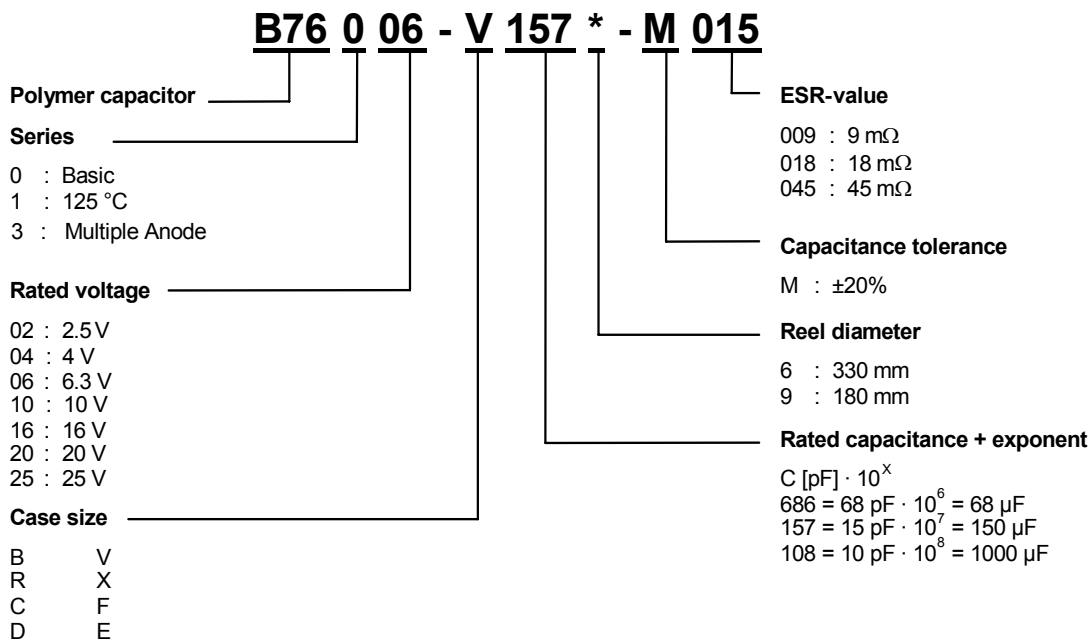
**Features**

- Ultra-low ESR:  $ESR_{max} = 12 \text{ m}\Omega \dots 80 \text{ m}\Omega$
- Ripple current up to  $3.9 \text{ A}_{RMS}$  @  $20^\circ\text{C}$ , 100 kHz
- Operating voltage 2.5 V ... 16 V
- Capacitance  $33 \mu\text{F} \dots 680 \mu\text{F}$  ( $\pm 20\%$ )
- Lead-free & RoHS-compatible
- Temperature range:  $-55^\circ\text{C} \dots 105^\circ\text{C}$
- No ignition failure mode
- 100% surge current tested

**Dimemsional drawing**


- ① Encapsulation: molded epoxy resin
- ② NiFe; tinned surface Sn100

| Case size |          | Dimensions in mm (inches)   |                             |                             |                     |                                  |                     |                     |
|-----------|----------|-----------------------------|-----------------------------|-----------------------------|---------------------|----------------------------------|---------------------|---------------------|
| EPCOS     | EIA/IECQ | L                           | W                           | H                           | L <sub>2</sub> typ. | W <sub>2</sub> ± 0.1<br>± (.004) | H <sub>2</sub> typ. | P ± 0.3<br>± (.012) |
| B         | 3528-20  | 3.5 ± 0.2<br>(.138 ± 0.008) | 2.8 ± 0.2<br>(.110 ± 0.008) | 1.9 ± 0.1<br>(.075 ± 0.004) | 3.3<br>(.130)       | 2.2<br>(.087)                    | 1.0<br>(.039)       | 0.8<br>(.031)       |
| R         | 3528-12  | 3.5 ± 0.2<br>(.138 ± 0.008) | 2.8 ± 0.2<br>(.110 ± 0.008) | 1.1 ± 0.1<br>(.043 ± 0.004) | 3.3<br>(.130)       | 2.2<br>(.087)                    | 1.2<br>(.047)       | 0.8<br>(.031)       |
| C         | 6032-28  | 6.0 ± 0.3<br>(.236 ± 0.012) | 3.2 ± 0.3<br>(.126 ± 0.012) | 2.5 ± 0.3<br>(.098 ± 0.012) | 5.8<br>(.228)       | 2.2<br>(.087)                    | 1.5<br>(.059)       | 1.3<br>(.051)       |
| X         | 7343-15  | 7.3 ± 0.3<br>(.287 ± 0.012) | 4.3 ± 0.3<br>(.169 ± 0.012) | 1.4 ± 0.1<br>(.055 ± 0.004) | 7.1<br>(.280)       | 2.4<br>(.094)                    | 1.6<br>(.062)       | 1.3<br>(.051)       |
| V         | 7343-20  | 7.3 ± 0.3<br>(.287 ± 0.012) | 4.3 ± 0.3<br>(.169 ± 0.012) | 1.9 ± 0.1<br>(.075 ± 0.004) | 7.1<br>(.280)       | 2.4<br>(.094)                    | 1.2<br>(.047)       | 1.3<br>(.051)       |
| D         | 7343-31  | 7.3 ± 0.3<br>(.287 ± 0.012) | 4.3 ± 0.3<br>(.169 ± 0.012) | 2.8 ± 0.3<br>(.110 ± .012)  | 7.1<br>(.280)       | 2.4<br>(.094)                    | 1.6<br>(.062)       | 1.3<br>(.051)       |
| E         | 7343-43  | 7.3 ± 0.3<br>(.287 ± 0.012) | 4.3 ± 0.3<br>(.169 ± 0.012) | 4.0 ± 0.3<br>(.157 ± .012)  | 7.1<br>(.280)       | 2.4<br>(.094)                    | 1.6<br>(.062)       | 1.3<br>(.051)       |
| F         | 7343-40  | 7.3 ± 0.3<br>(.287 ± 0.012) | 4.3 ± 0.3<br>(.169 ± 0.012) | 3.8 ± 0.2<br>(.150 ± .008)  | 7.1<br>(.280)       | 2.4<br>(.094)                    | 1.6<br>(.062)       | 1.3<br>(.051)       |

**Ordering code structure**

**Part number reference**

| Rated voltage<br>V <sub>R</sub><br>up to 85 °C<br>(up to 105 °C) | Rated capacitance<br>C <sub>R</sub> | Case size | EIA code | DF <sub>max</sub><br>(20 °C, 120 Hz) | Leakage current<br>I <sub>leak, max</sub><br>(20 °C, V <sub>R</sub> , 5 min) | ESR <sub>max</sub> <sup>1)</sup><br>(20 °C, 100 kHz) | Ripple current                  |                  |        | Ordering code   |
|------------------------------------------------------------------|-------------------------------------|-----------|----------|--------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------|---------------------------------|------------------|--------|-----------------|
|                                                                  |                                     |           |          |                                      |                                                                              |                                                      | I <sub>ACmax</sub><br>(100 kHz) | A <sub>RMS</sub> |        |                 |
| VDC                                                              | μF                                  |           |          | %                                    | μA                                                                           | mΩ                                                   | 20 °C                           | 85 °C            | 105 °C |                 |
| 2,5<br>(2.0)                                                     | 150                                 | B         | 3528-20  | 10                                   | 38                                                                           | 70                                                   | 1.1                             | 1.0              | 0.4    | B76002B1579M070 |
|                                                                  | 220                                 | B         | 3528-20  | 8                                    | 55                                                                           | 35                                                   | 1.6                             | 1.4              | 0.6    | B76002B2279M035 |
|                                                                  | 220                                 | D         | 7343-31  | 10                                   | 55                                                                           | 45                                                   | 1.8                             | 1.6              | 0.7    | B76002D2279M045 |
|                                                                  | 220                                 | D         | 7343-31  | 10                                   | 55                                                                           | 55                                                   | 1.7                             | 1.5              | 0.7    | B76002D2279M055 |
|                                                                  | 220                                 | V         | 7343-20  | 10                                   | 55                                                                           | 15                                                   | 3.1                             | 2.8              | 1.2    | B76002V2279M015 |
|                                                                  | 220                                 | V         | 7343-20  | 10                                   | 55                                                                           | 18                                                   | 2.8                             | 2.5              | 1.1    | B76002V2279M018 |
|                                                                  | 220                                 | V         | 7343-20  | 10                                   | 55                                                                           | 25                                                   | 2.4                             | 2.1              | 1.0    | B76002V2279M025 |
|                                                                  | 220                                 | V         | 7343-20  | 10                                   | 55                                                                           | 35                                                   | 1.9                             | 1.7              | 0.8    | B76002V2279M035 |
|                                                                  | 220                                 | V         | 7343-20  | 10                                   | 55                                                                           | 45                                                   | 1.7                             | 1.5              | 0.7    | B76002V2279M045 |
|                                                                  | 330                                 | D         | 7343-31  | 10                                   | 83                                                                           | 40                                                   | 1.9                             | 1.7              | 0.8    | B76002D3379M040 |
|                                                                  | 330                                 | V         | 7343-20  | 10                                   | 83                                                                           | 12                                                   | 3.4                             | 3.1              | 1.4    | B76002V3379M012 |
|                                                                  | 330                                 | V         | 7343-20  | 10                                   | 83                                                                           | 15                                                   | 3.1                             | 2.8              | 1.2    | B76002V3379M015 |
|                                                                  | 330                                 | V         | 7343-20  | 10                                   | 83                                                                           | 18                                                   | 2.8                             | 2.5              | 1.1    | B76002V3379M018 |
|                                                                  | 330                                 | V         | 7343-20  | 10                                   | 83                                                                           | 25                                                   | 2.4                             | 2.1              | 1.0    | B76002V3379M025 |
|                                                                  | 330                                 | V         | 7343-20  | 10                                   | 83                                                                           | 35                                                   | 2.0                             | 1.8              | 0.8    | B76002V3379M035 |
|                                                                  | 330                                 | V         | 7343-20  | 10                                   | 83                                                                           | 40                                                   | 1.8                             | 1.6              | 0.7    | B76002V3379M040 |
|                                                                  | 470                                 | D         | 7343-31  | 10                                   | 118                                                                          | 40                                                   | 2.0                             | 1.8              | 0.8    | B76002D4779M040 |
|                                                                  | 470                                 | V         | 7343-20  | 10                                   | 118                                                                          | 18                                                   | 2.8                             | 2.5              | 1.1    | B76002V4779M018 |
| 4<br>(3.2)                                                       | 100                                 | B         | 3528-20  | 8                                    | 40                                                                           | 70                                                   | 1.1                             | 1.0              | 0.4    | B76004B1079M070 |
|                                                                  | 100                                 | B         | 3528-20  | 8                                    | 40                                                                           | 35                                                   | 1.6                             | 1.4              | 0.6    | B76004B1079M035 |
|                                                                  | 150                                 | B         | 3528-20  | 8                                    | 60                                                                           | 35                                                   | 1.6                             | 1.4              | 0.6    | B76004B1579M035 |

Upon request

# Polymer chip capacitors

B760

## TOPcap - Basic

| Rated voltage<br>$V_R$<br>up to 85 °C<br>(up to 105 °C) | Rated capacitance<br>$C_R$ | Case size | EIA code | DF <sub>max</sub><br><br>(20 °C,<br>120 Hz) | Leakage current<br>$I_{leak, max}$<br>(20 °C, $V_R$ ,<br>5 min) | ESR <sub>max</sub> <sup>1)</sup><br><br>(20 °C,<br>100 kHz) | Ripple current                        |       |        | Ordering code   |
|---------------------------------------------------------|----------------------------|-----------|----------|---------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|---------------------------------------|-------|--------|-----------------|
|                                                         |                            |           |          |                                             |                                                                 |                                                             | $I_{ACmax}$<br>(100 kHz)<br>$A_{RMS}$ |       |        |                 |
| VDC                                                     | μF                         |           |          | %                                           | μA                                                              | mΩ                                                          | 20 °C                                 | 85 °C | 105 °C |                 |
| 4<br>(3.2)                                              | 150                        | B         | 3528-20  | 8                                           | 60                                                              | 70                                                          | 1.1                                   | 1.0   | 0.4    | B76004B1579M070 |
|                                                         | 220                        | D         | 7343-31  | 10                                          | 88                                                              | 45                                                          | 1.8                                   | 1.6   | 0.7    | B76004D2279M045 |
|                                                         | 220                        | D         | 7343-31  | 10                                          | 88                                                              | 55                                                          | 1.7                                   | 1.5   | 0.7    | B76004D2279M055 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 88                                                              | 15                                                          | 3.1                                   | 2.8   | 1.2    | B76004V2279M015 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 88                                                              | 18                                                          | 2.8                                   | 2.5   | 1.1    | B76004V2279M018 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 88                                                              | 25                                                          | 2.4                                   | 2.1   | 1.0    | B76004V2279M025 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 88                                                              | 35                                                          | 1.9                                   | 1.7   | 0.8    | B76004V2279M035 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 88                                                              | 45                                                          | 1.7                                   | 1.5   | 0.7    | B76004V2279M045 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 88                                                              | 40                                                          | 1.9                                   | 1.7   | 0.8    | B76004V2279M040 |
|                                                         | 330                        | D         | 7343-31  | 10                                          | 132                                                             | 40                                                          | 2.0                                   | 1.8   | 0.8    | B76004D3379M040 |
|                                                         | 330                        | D         | 7343-31  | 10                                          | 132                                                             | 50                                                          | 1.7                                   | 1.6   | 0.7    | B76004D3379M050 |
|                                                         | 330                        | E         | 7343-43  | 10                                          | 132                                                             | 35                                                          | 2.2                                   | 2.0   | 0.9    | B76004E3379M035 |
|                                                         | 330                        | E         | 7343-43  | 10                                          | 132                                                             | 40                                                          | 2.0                                   | 1.8   | 0.8    | B76004E3379M040 |
|                                                         | 330                        | V         | 7343-20  | 10                                          | 132                                                             | 35                                                          | 1.9                                   | 1.7   | 0.8    | B76004V3379M035 |
|                                                         | 470                        | D         | 7343-31  | 10                                          | 188                                                             | 40                                                          | 1.9                                   | 1.7   | 0.8    | B76004D4779M040 |
|                                                         | 470                        | D         | 7343-31  | 10                                          | 188                                                             | 55                                                          | 1.7                                   | 1.5   | 0.7    | B76004D4779M055 |
|                                                         | 470                        | D         | 7343-31  | 10                                          | 188                                                             | 60                                                          | 1.6                                   | 1.4   | 0.6    | B76004D4779M060 |
|                                                         | 470                        | F         | 7343-40  | 10                                          | 188                                                             | 40                                                          | 2.0                                   | 1.8   | 0.8    | B76004F4779M040 |
|                                                         | 680                        | E         | 7343-43  | 10                                          | 272                                                             | 40                                                          | 2.0                                   | 1.8   | 0.8    | B76004E6879M040 |
| 6.3<br>(5.0)                                            | 33                         | B         | 3528-20  | 8                                           | 21                                                              | 70                                                          | 1.1                                   | 1.0   | 0.4    | B76006B3369M070 |
|                                                         | 47                         | B         | 3528-20  | 8                                           | 30                                                              | 70                                                          | 1.1                                   | 1.0   | 0.4    | B76006B4769M070 |
|                                                         | 47                         | B         | 3528-20  | 10                                          | 30                                                              | 45                                                          | 1.4                                   | 1.2   | 0.6    | B76006B4769M045 |
|                                                         | 47                         | B         | 3528-20  | 8                                           | 30                                                              | 35                                                          | 1.6                                   | 1.4   | 0.6    | B76006B4769M035 |
|                                                         | 100                        | B         | 3528-20  | 8                                           | 63                                                              | 35                                                          | 1.6                                   | 1.4   | 0.6    | B76006B1079M035 |
|                                                         | 100                        | B         | 3528-20  | 8                                           | 63                                                              | 45                                                          | 1.4                                   | 1.2   | 0.6    | B76006B1079M045 |
|                                                         | 100                        | B         | 3528-20  | 8                                           | 63                                                              | 55                                                          | 1.2                                   | 1.1   | 0.5    | B76006B1079M055 |
|                                                         | 100                        | B         | 3528-20  | 8                                           | 63                                                              | 70                                                          | 1.1                                   | 1.0   | 0.4    | B76006B1079M070 |
|                                                         | 100                        | D         | 7343-31  | 10                                          | 63                                                              | 45                                                          | 1.8                                   | 1.6   | 0.7    | B76006D1079M045 |
|                                                         | 100                        | V         | 7343-20  | 10                                          | 63                                                              | 35                                                          | 1.9                                   | 1.7   | 0.8    | B76006V1079M035 |
|                                                         | 100                        | V         | 7343-20  | 10                                          | 63                                                              | 45                                                          | 1.7                                   | 1.5   | 0.7    | B76006V1079M045 |
|                                                         | 150                        | C         | 6032-28  | 8                                           | 95                                                              | 25                                                          | 2.4                                   | 2.1   | 1.0    | B76006C1579M025 |
|                                                         | 150                        | C         | 6032-28  | 8                                           | 95                                                              | 45                                                          | 1.7                                   | 1.5   | 0.7    | B76006C1579M045 |
|                                                         | 150                        | C         | 6032-28  | 10                                          | 95                                                              | 70                                                          | 1.3                                   | 1.1   | 0.5    | B76006C1579M070 |
|                                                         | 150                        | D         | 7343-31  | 10                                          | 95                                                              | 45                                                          | 1.8                                   | 1.6   | 0.7    | B76006D1579M045 |
|                                                         | 150                        | D         | 7343-31  | 8                                           | 95                                                              | 55                                                          | 1.9                                   | 1.7   | 0.7    | B76006D1579M055 |
|                                                         | 150                        | V         | 7343-20  | 10                                          | 95                                                              | 15                                                          | 2.9                                   | 2.6   | 1.2    | B76006V1579M015 |
|                                                         | 150                        | V         | 7343-20  | 10                                          | 95                                                              | 18                                                          | 2.8                                   | 2.5   | 1.1    | B76006V1579M018 |
|                                                         | 150                        | V         | 7343-20  | 10                                          | 95                                                              | 25                                                          | 2.4                                   | 2.1   | 1.0    | B76006V1579M025 |
|                                                         | 150                        | V         | 7343-20  | 10                                          | 95                                                              | 35                                                          | 1.9                                   | 1.7   | 0.8    | B76006V1579M035 |
|                                                         | 150                        | V         | 7343-20  | 10                                          | 95                                                              | 40                                                          | 1.9                                   | 1.7   | 0.8    | B76006V1579M040 |
|                                                         | 150                        | V         | 7343-20  | 10                                          | 95                                                              | 45                                                          | 1.7                                   | 1.5   | 0.7    | B76006V1579M045 |
|                                                         | 150                        | V         | 7343-20  | 10                                          | 95                                                              | 80                                                          | 1.3                                   | 1.1   | 0.5    | B76006V1579M080 |
|                                                         | 150                        | X         | 7343-15  | 10                                          | 95                                                              | 50                                                          | 1.5                                   | 1.3   | 0.6    | B76006X1579M050 |
|                                                         | 150                        | X         | 7343-15  | 10                                          | 95                                                              | 40                                                          | 1.7                                   | 1.5   | 0.7    | B76006X1579M040 |
|                                                         | 220                        | D         | 7343-31  | 10                                          | 139                                                             | 40                                                          | 2.0                                   | 1.8   | 0.8    | B76006D2279M040 |
|                                                         | 220                        | D         | 7343-31  | 10                                          | 139                                                             | 50                                                          | 1.7                                   | 1.6   | 0.7    | B76006D2279M050 |
|                                                         | 220                        | D         | 7343-31  | 10                                          | 139                                                             | 45                                                          | 1.8                                   | 1.6   | 0.7    | B76006D2279M045 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 139                                                             | 25                                                          | 2.4                                   | 2.1   | 1.0    | B76006V2279M025 |
|                                                         | 220                        | V         | 7343-20  | 10                                          | 139                                                             | 35                                                          | 1.9                                   | 1.7   | 0.8    | B76006V2279M035 |

■ Upon request

# Polymer chip capacitors

B760

## TOPcap - Basic

| Rated voltage<br>$V_R$<br>up to 85 °C<br>(up to 105 °C)<br>VDC | Rated capacitance<br>$C_R$<br>$\mu F$ | Case size | EIA code | $DF_{max}$<br>(20 °C, 120 Hz)<br>% | Leakage current<br>$I_{leak, max}$<br>(20 °C, $V_R$ , 5 min)<br>$\mu A$ | $ESR_{max}^{1)}$<br>(20 °C, 100 kHz)<br>$m\Omega$ | Ripple current                        |       |       | Ordering code   |
|----------------------------------------------------------------|---------------------------------------|-----------|----------|------------------------------------|-------------------------------------------------------------------------|---------------------------------------------------|---------------------------------------|-------|-------|-----------------|
|                                                                |                                       |           |          |                                    |                                                                         |                                                   | $I_{ACmax}$<br>(100 kHz)<br>$A_{RMS}$ | 20 °C | 85 °C | 105 °C          |
| 6.3<br>(5.0)                                                   | 220                                   | V         | 7343-20  | 10                                 | 139                                                                     | 40                                                | 1.8                                   | 1.6   | 0.7   | B76006V2279M040 |
|                                                                | 220                                   | V         | 7343-20  | 10                                 | 139                                                                     | 45                                                | 1.7                                   | 1.5   | 0.7   | B76006V2279M045 |
|                                                                | 330                                   | D         | 7343-31  | 10                                 | 208                                                                     | 25                                                | 2.5                                   | 2.2   | 1.0   | B76006D3379M025 |
|                                                                | 330                                   | D         | 7343-31  | 10                                 | 208                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76006D3379M040 |
|                                                                | 330                                   | D         | 7343-31  | 10                                 | 208                                                                     | 45                                                | 1.8                                   | 1.6   | 0.7   | B76006D3379M045 |
|                                                                | 330                                   | E         | 7343-43  | 10                                 | 208                                                                     | 35                                                | 2.2                                   | 2.0   | 0.9   | B76006E3379M035 |
|                                                                | 330                                   | E         | 7343-43  | 10                                 | 208                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76006E3379M040 |
|                                                                | 330                                   | V         | 7343-20  | 10                                 | 208                                                                     | 25                                                | 2.2                                   | 2.0   | 0.9   | B76006V3379M025 |
|                                                                | 330                                   | V         | 7343-20  | 10                                 | 208                                                                     | 45                                                | 1.7                                   | 1.5   | 0.7   | B76006V3379M045 |
|                                                                | 470                                   | E         | 7343-43  | 10                                 | 296                                                                     | 35                                                | 2.2                                   | 2.0   | 0.9   | B76006E4779M035 |
| 10<br>(8.0)                                                    | 470                                   | E         | 7343-43  | 10                                 | 296                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76006E4779M040 |
|                                                                | 150                                   | D         | 7343-31  | 10                                 | 95                                                                      | 80                                                | 1.4                                   | 1.2   | 0.6   | B76006D1579M080 |
|                                                                | 47                                    | B         | 3528-20  | 8                                  | 47                                                                      | 70                                                | 1.1                                   | 1.0   | 0.4   | B76010B4769M070 |
|                                                                | 68                                    | V         | 7343-20  | 10                                 | 68                                                                      | 45                                                | 1.7                                   | 1.5   | 0.7   | B76010V6869M045 |
|                                                                | 68                                    | V         | 7343-20  | 10                                 | 68                                                                      | 60                                                | 1.4                                   | 1.3   | 0.6   | B76010V6869M060 |
|                                                                | 100                                   | D         | 7343-31  | 10                                 | 100                                                                     | 55                                                | 1.9                                   | 1.7   | 0.7   | B76010D1079M055 |
|                                                                | 100                                   | D         | 7343-31  | 10                                 | 100                                                                     | 80                                                | 1.4                                   | 1.2   | 0.6   | B76010D1079M080 |
|                                                                | 100                                   | V         | 7343-20  | 10                                 | 100                                                                     | 80                                                | 1.3                                   | 1.1   | 0.5   | B76010V1079M080 |
|                                                                | 100                                   | X         | 7343-15  | 10                                 | 100                                                                     | 70                                                | 1.3                                   | 1.1   | 0.5   | B76010X1079M070 |
|                                                                | 150                                   | D         | 7343-31  | 10                                 | 150                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76010D1579M040 |
|                                                                | 150                                   | D         | 7343-31  | 10                                 | 150                                                                     | 50                                                | 1.7                                   | 1.6   | 0.7   | B76010D1579M050 |
|                                                                | 150                                   | D         | 7343-31  | 10                                 | 150                                                                     | 55                                                | 1.7                                   | 1.5   | 0.7   | B76010D1579M055 |
|                                                                | 220                                   | D         | 7343-31  | 10                                 | 220                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76010D2279M040 |
|                                                                | 220                                   | D         | 7343-31  | 10                                 | 220                                                                     | 55                                                | 1.7                                   | 1.5   | 0.7   | B76010D2279M055 |
|                                                                | 220                                   | E         | 7343-43  | 10                                 | 220                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76010E2279M040 |
| 16 (12.8)                                                      | 220                                   | F         | 7343-40  | 10                                 | 220                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76010F2279M040 |
|                                                                | 330                                   | E         | 7343-43  | 10                                 | 330                                                                     | 40                                                | 2.0                                   | 1.8   | 0.8   | B76010E3379M040 |
| 16 (12.8)                                                      | 47                                    | V         | 7343-20  | 10                                 | 75                                                                      | 70                                                | 1.3                                   | 1.2   | 0.5   | B76016V4769M070 |

Upon request