



**THE DATASHEET OF  
B76306E4779M020**





# Polymer Chip Capacitor

TOPcap – Basic

**Series/Type:** B760

Date: June 2005  
Version: 1



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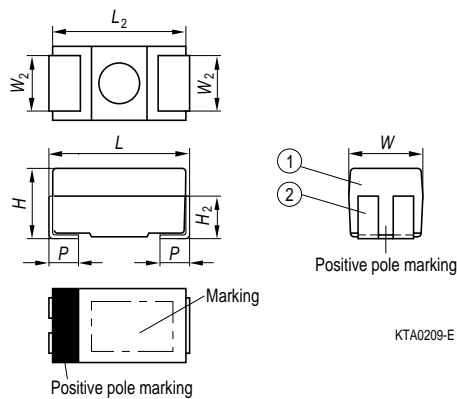


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**Features**

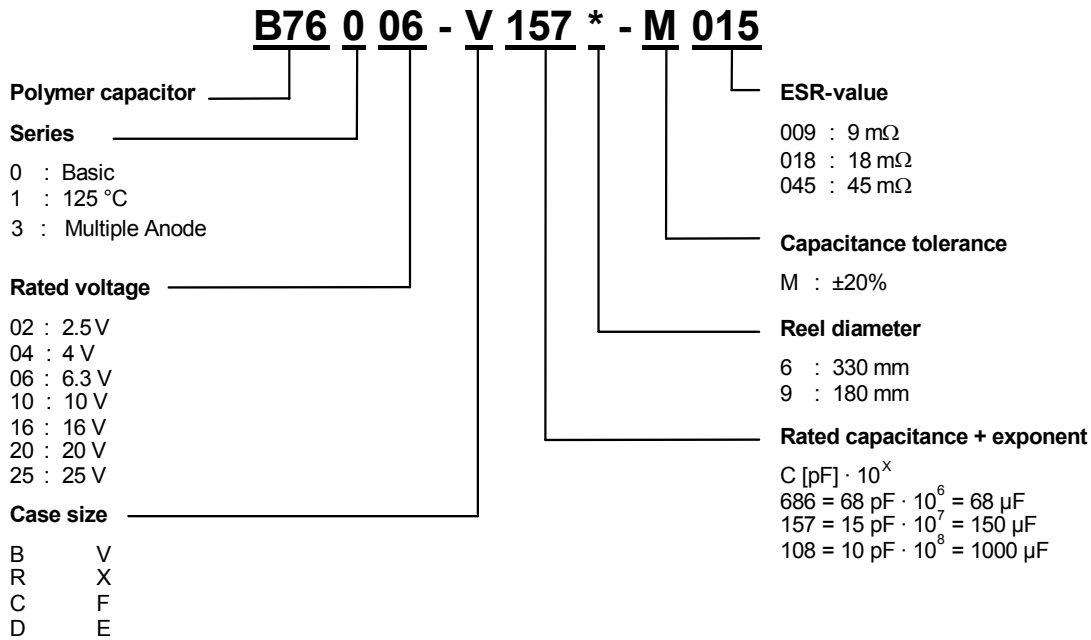
- Ultra-low ESR:  $ESR_{max} = 12 \text{ m}\Omega \dots 80 \text{ m}\Omega$
- Ripple current up to  $3.9 \text{ A}_{RMS} @ 20 \text{ }^\circ\text{C}, 100 \text{ kHz}$
- Operating voltage  $2.5 \text{ V} \dots 16 \text{ V}$
- Capacitance  $33 \text{ }\mu\text{F} \dots 680 \text{ }\mu\text{F} (\pm 20\%)$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

**Dimensional 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 ± (.004)	H <sub>2</sub> typ.	P ± 0.3 ± (.012)
B	3528-20	3.5 ± 0.2 (.138 ± 0.008)	2.8 ± 0.2 (.110 ± 0.008)	1.9 ± 0.1 (.075 ± 0,004)	3.3 (.130)	2.2 (.087)	1.0 (.039)	0.8 (.031)
R	3528-12	3.5 ± 0.2 (.138 ± 0.008)	2.8 ± 0.2 (.110 ± 0.008)	1.1 ± 0.1 (.043 ± 0,004)	3.3 (.130)	2.2 (.087)	1.2 (.047)	0.8 (.031)
C	6032-28	6.0 ± 0.3 (.236 ± 0.012)	3.2 ± 0.3 (.126 ± 0.012)	2.5 ± 0.3 (.098 ± 0,012)	5.8 (.228)	2.2 (.087)	1.5 (.059)	1.3 (.051)
X	7343-15	7.3 ± 0.3 (.287 ± 0.012)	4.3 ± 0.3 (.169 ± 0.012)	1.4 ± 0.1 (.055 ± 0,004)	7.1 (.280)	2.4 (.094)	1.6 (.062)	1.3 (.051)
V	7343-20	7.3 ± 0.3 (.287 ± 0.012)	4.3 ± 0.3 (.169 ± 0.012)	1.9 ± 0.1 (.075 ± 0,004)	7.1 (.280)	2.4 (.094)	1.2 (.047)	1.3 (.051)
D	7343-31	7.3 ± 0.3 (.287 ± 0.012)	4.3 ± 0.3 (.169 ± 0.012)	2.8 ± 0.3 (.110 ± .012)	7.1 (.280)	2.4 (.094)	1.6 (.062)	1.3 (.051)
E	7343-43	7.3 ± 0.3 (.287 ± 0.012)	4.3 ± 0.3 (.169 ± 0.012)	4.0 ± 0.3 (.157 ± .012)	7.1 (.280)	2.4 (.094)	1.6 (.062)	1.3 (.051)
F	7343-40	7.3 ± 0.3 (.287 ± 0.012)	4.3 ± 0.3 (.169 ± 0.012)	3.8 ± 0.2 (.150 ± .008)	7.1 (.280)	2.4 (.094)	1.6 (.062)	1.3 (.051)

Ordering code structure



Part number reference

Rated voltage V <sub>R</sub> up to 85 °C (up to 105 °C)	Rated capacitance C <sub>R</sub>	Case size	EIA code	DF <sub>max</sub> (20 °C, 120 Hz)	Leakage current I <sub>leak, max</sub> (20 °C, V <sub>R</sub> , 5 min)	ESR <sub>max</sub> <sup>1)</sup> (20 °C, 100 kHz)	Ripple current			Ordering code
							I <sub>ACmax</sub> (100 kHz)	A <sub>RMS</sub>		
VDC	μF			%	μA	mΩ	20 °C	85 °C	105 °C	
2,5 (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 (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



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Rated voltage $V_R$ up to 85 °C (up to 105 °C)	Rated capacitance $C_R$	Case size	EIA code	DF <sub>max</sub> (20 °C, 120 Hz)	Leakage current $I_{leak, max}$ (20 °C, $V_R$ , 5 min)	ESR <sub>max</sub> <sup>1)</sup> (20 °C, 100 kHz)	Ripple current			Ordering code
							$I_{ACmax}$ (100 kHz)	$A_{RMS}$		
VDC	µF			%	µA	mΩ	20 °C	85 °C	105 °C	
4 (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 (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 $V_R$ up to 85 °C (up to 105 °C) VDC	Rated capacitance $C_R$ $\mu\text{F}$	Case size	EIA code	$DF_{\text{max}}$ (20 °C, 120 Hz) %	Leakage current $I_{\text{leak, max}}$ (20 °C, $V_R$ , 5 min) $\mu\text{A}$	$ESR_{\text{max}}^{(1)}$ (20 °C, 100 kHz) $\text{m}\Omega$	Ripple current			Ordering code
							$I_{\text{ACmax}}$ (100 kHz) $A_{\text{RMS}}$	20 °C	85 °C	
6.3 (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
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	
10 (8.0)	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
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

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