

Film Capacitors

Metallized Polyester Film Capacitors (MKT)

Series/Type: B32520 ... B32529

Date: April 2015

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General purpose (stacked/wound)
Typical applications

- Blocking
- Coupling, decoupling
- Bypassing
- RFI for automotive

Climatic

- Max. operating temperature: 125 °C
- Climatic category (IEC 60068-1): 55/125/56

Construction

- Dielectric: polyethylene terephthalate (polyester, PET)
- Stacked-film technology for lead spacing 5 to 15 mm
= code C, D or E in digit 7 of ordering code
- Wound capacitor technology for lead spacing 10 to 37.5 mm
= code N, Q or R in digit 7 of ordering code
- Plastic case (UL 94 V-0)
- Epoxy resin sealing (UL 94 V-0)

Features

- High pulse strength
- High contact reliability
- RoHS-compatible
- Halogen-free capacitors available on request

Terminals

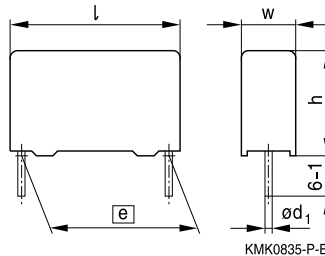
- Parallel wire leads, lead-free tinned
- Special lead lengths available on request

Marking

Manufacturer's logo,
rated capacitance (coded), cap. tolerance (code letter),
rated DC voltage, date of manufacture (coded),
coded type ("1") for lead spacing 5 mm,
series and lot number for lead spacing ≥ 10 mm

Delivery mode

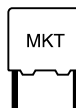
Bulk (untaped)
Taped (Ammo pack or reel)
For notes on taping, refer to chapter "Taping and packing".

Dimensional drawing


Dimensions in mm

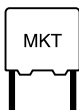
Lead spacing $e \pm 0.4$	Lead diameter $d_1 \pm 0.05$	Type
5.0	0.5	B32529
7.5	0.5	B32520
10.0	0.6 ¹⁾	B32521
15.0	0.8	B32522
22.5	0.8	B32523
27.5	0.8	B32524
37.5	1.0	B32526

 1) 0.5 mm for capacitor width $w = 4$ mm


Overview of available types

Lead spacing	5.0 mm						7.5 mm				10.0 mm				
Type	B32529						B32520				B32521				
Page	6						9				10				
Technology	s	s	s	s	s	s	s	s	s	s	s	s	s	s	s
V _R (V DC)	50	63	100	250	400	630	63	100	250	400	63	100	250	400	630
V _{RMS} (V AC)	32	40	63	160	200	400	40	63	160	200	40	63	160	200	200
C _R (μF)															
0.0010															
0.0015															
0.0022															
0.0033															
0.0047															
0.0068															
0.010															
0.015															
0.022															
0.033															
0.047															
0.056															
0.068															
0.082															
0.10															
0.12															
0.15															
0.18															
0.22															
0.33															
0.47															
0.68															
1.0															
1.5															
2.2															
3.3															
4.7															

Technology: s = Stacked-film technology / w = Wound capacitor technology



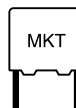
B32520 ... B32529

General purpose (stacked/wound)

Overview of available types

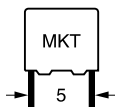
Lead spacing	15.0 mm					22.5 mm					27.5 mm					
Type	B32522					B32523					B32524					
Page	12					14					15					
Technology	s	s/w	s/w	s	w	s	w	w	w	w	w	w	w	w	w	
V _R (V DC)	63	100	250	400	450	630	63	100	250	400	630	63	100	250	400	630
V _{RMS} (V AC)	40	63	160	200	200	200	40	63	160	200	200	40	63	160	200	220
C _R (μF)																
0.047																
0.068																
0.10																
0.15																
0.22																
0.33																
0.39																
0.47																
0.56																
0.68																
1.0																
1.5																
2.2																
3.3																
4.7																
6.8																
10																
15																
22																
33																
47																
68																
100																

Technology: s = Stacked-film technology / w = Wound capacitor technology


Overview of available types

Lead spacing	37.5 mm			
Type	B32526			
Page	17			
Technology	w	w	w	w
V_R (V DC)	63	100	250	400
V_{RMS} (V AC)	40	63	160	200
C_R (μ F)				
3.3				
4.7				
5.6				
6.8				
8.2				
10				
15				
22				
33				
47				
56				
68				
82				
100				
150				
220				

Technology: s = Stacked-film technology / w = Wound capacitor technology


B32529
General purpose (stacked)
Ordering codes and packing units (lead spacing 5 mm)

V_R	V_{RMS} $f \leq 60$ Hz	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
50	32	3.3	7.8 × 13.0 × 7.8	B32529D5335+***	4000	3200	4000
		4.7	7.8 × 13.0 × 7.8	B32529D5475M***	4000	3200	4000
63	40	0.0010	2.5 × 6.5 × 7.3	B32529C0102+***	12800	11200	8000
		0.0015	2.5 × 6.5 × 7.3	B32529C0152+***	12800	11200	8000
		0.0022	2.5 × 6.5 × 7.3	B32529C0222+***	12800	11200	8000
		0.0033	2.5 × 6.5 × 7.3	B32529C0332+***	12800	11200	8000
		0.0047	2.5 × 6.5 × 7.3	B32529C0472+***	12800	11200	8000
		0.0068	2.5 × 6.5 × 7.3	B32529C0682+***	12800	11200	8000
		0.010	2.5 × 6.5 × 7.3	B32529C0103+***	12800	11200	8000
		0.015	2.5 × 6.5 × 7.3	B32529C0153+***	12800	11200	8000
		0.022	2.5 × 6.5 × 7.3	B32529C0223+***	12800	11200	8000
		0.033	2.5 × 6.5 × 7.3	B32529C0333+***	12800	11200	8000
		0.047	2.5 × 6.5 × 7.3	B32529C0473+***	12800	11200	8000
		0.068	2.5 × 6.5 × 7.3	B32529C0683+***	12800	11200	8000
		0.10	2.5 × 6.5 × 7.3	B32529C0104+***	12800	11200	8000
		0.15	2.5 × 6.5 × 7.3	B32529C0154+***	12800	11200	8000
		0.22	2.5 × 6.5 × 7.3	B32529C0224+***	12800	11200	8000
		0.33	3.0 × 6.5 × 7.3	B32529C0334+***	10800	9600	8000
		0.47	3.5 × 8.0 × 7.3	B32529C0474+***	9200	8000	8000
0.68	4.5 × 9.5 × 7.3	B32529C0684+***	7200	6000	6000		
1.0	4.5 × 9.5 × 7.3	B32529C0105+***	7200	6000	6000		
1.5	6.0 × 10.5 × 7.5	B32529C0155+***	5200	4400	4000		
2.2	7.8 × 13.0 × 7.8	B32529D0225+***	4000	3200	4000		
100	63	0.0010	2.5 × 6.5 × 7.3	B32529C1102+***	12800	11200	8000
		0.0015	2.5 × 6.5 × 7.3	B32529C1152+***	12800	11200	8000
		0.0022	2.5 × 6.5 × 7.3	B32529C1222+***	12800	11200	8000
		0.0033	2.5 × 6.5 × 7.3	B32529C1332+***	12800	11200	8000
		0.0047	2.5 × 6.5 × 7.3	B32529C1472+***	12800	11200	8000
		0.0068	2.5 × 6.5 × 7.3	B32529C1682+***	12800	11200	8000
		0.010	2.5 × 6.5 × 7.3	B32529C1103+***	12800	11200	8000
		0.015	2.5 × 6.5 × 7.3	B32529C1153+***	12800	11200	8000

MOQ = Minimum Order Quantity, consisting of 4 packing units.
Further E series and intermediate capacitance values on request.

Composition of ordering code

+ = Capacitance tolerance code:

M = ±20%

K = ±10%

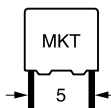
J = ±5%

*** = Packaging code:

289 = Ammo pack

189 = Reel

000 = Untaped (standard lead length 6 – 1 mm)


Ordering codes and packing units (lead spacing 5 mm)

V_R	V_{RMS} $f \leq 60$ Hz	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
100	63	0.022	2.5 × 6.5 × 7.3	B32529C1223+***	12800	11200	8000
		0.033	2.5 × 6.5 × 7.3	B32529C1333+***	12800	11200	8000
		0.047	2.5 × 6.5 × 7.3	B32529C1473+***	12800	11200	8000
		0.068	2.5 × 6.5 × 7.3	B32529C1683+***	12800	11200	8000
		0.10	2.5 × 6.5 × 7.3	B32529C1104+***	12800	11200	8000
		0.15	3.0 × 6.5 × 7.3	B32529C1154+***	10800	9600	8000
		0.22	3.5 × 8.0 × 7.3	B32529C1224+***	9200	8000	8000
		0.33	3.5 × 8.0 × 7.3	B32529C1334+***	9200	8000	8000
		0.47	4.5 × 9.5 × 7.3	B32529C1474+***	7200	6000	6000
		0.68	6.0 × 10.5 × 7.5	B32529C1684+***	5200	4400	4000
		1.0	7.8 × 13.0 × 7.8	B32529D1105+***	4000	3200	4000
250	160	0.0010	2.5 × 6.5 × 7.3	B32529C3102+***	12800	11200	8000
		0.0015	2.5 × 6.5 × 7.3	B32529C3152+***	12800	11200	8000
		0.0022	2.5 × 6.5 × 7.3	B32529C3222+***	12800	11200	8000
		0.0033	2.5 × 6.5 × 7.3	B32529C3332+***	12800	11200	8000
		0.0047	2.5 × 6.5 × 7.3	B32529C3472+***	12800	11200	8000
		0.0068	2.5 × 6.5 × 7.3	B32529C3682+***	12800	11200	8000
		0.010	2.5 × 6.5 × 7.3	B32529C3103+***	12800	11200	8000
		0.015	2.5 × 6.5 × 7.3	B32529C3153+***	12800	11200	8000
		0.022	2.5 × 6.5 × 7.3	B32529C3223+***	12800	11200	8000
		0.033	3.0 × 6.5 × 7.3	B32529C3333+***	10800	9600	8000
		0.047	3.5 × 8.0 × 7.3	B32529C3473+***	9200	8000	8000
		0.068	4.5 × 9.5 × 7.3	B32529C3683+***	7200	6000	6000
		0.10	4.5 × 9.5 × 7.3	B32529C3104+***	7200	6000	6000
		0.15	5.0 × 10.0 × 7.5	B32529C3154+***	6400	5600	6000
		0.22	7.8 × 13.0 × 7.8	B32529D3224+***	4000	3200	4000
		0.33	7.8 × 13.0 × 7.8	B32529C3334+***	4000	3200	4000
		0.47	7.8 × 13.0 × 7.8	B32529C3474+***	4000	3200	4000

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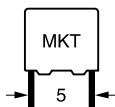
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General purpose (stacked)
Ordering codes and packing units (lead spacing 5 mm)

V_R	V_{RMS} $f \leq 60$ Hz	C_R	Max. dimensions $w \times h \times l$ mm	Ordering code (composition see below)	Ammo pack pcs./MOQ	Reel pcs./ MOQ	Untaped pcs./ MOQ
V DC	V AC	μF					
400	200	0.0010	2.5 × 6.5 × 7.3	B32529C6102+***	12800	11200	8000
		0.0015	2.5 × 6.5 × 7.3	B32529C6152+***	12800	11200	8000
		0.0022	2.5 × 6.5 × 7.3	B32529C6222+***	12800	11200	8000
		0.0033	2.5 × 6.5 × 7.3	B32529C6332+***	12800	11200	8000
		0.0047	2.5 × 6.5 × 7.3	B32529C6472+***	12800	11200	8000
		0.0068	2.5 × 6.5 × 7.3	B32529C6682+***	12800	11200	8000
		0.010	3.0 × 6.5 × 7.3	B32529E6103+***	10800	9600	8000
		0.015	3.0 × 6.5 × 7.3	B32529E6153+***	10800	9600	8000
		0.022	3.5 × 8.0 × 7.3	B32529E6223+***	9200	8000	8000
		0.033	4.5 × 9.5 × 7.3	B32529E6333+***	7200	6000	6000
		0.047	4.5 × 9.5 × 7.3	B32529E6473+***	7200	6000	6000
		0.068	6.0 × 10.5 × 7.5	B32529E6683+***	5200	4400	4000
		0.10	7.8 × 13.0 × 7.8	B32529E6104+***	4000	3200	4000
		0.15	7.8 × 13.0 × 7.8	B32529E6154+***	4000	3200	4000
		630	400	0.0010	2.5 × 6.5 × 7.3	B32529C8102+***	12800
0.0015	2.5 × 6.5 × 7.3			B32529C8152+***	12800	11200	8000
0.0022	2.5 × 6.5 × 7.3			B32529C8222+***	12800	11200	8000
0.0033	3.5 × 8.0 × 7.3			B32529C8332+***	9200	8000	8000
0.0047	3.5 × 8.0 × 7.3			B32529C8472+***	9200	8000	8000
0.0068	3.5 × 8.0 × 7.3			B32529C8682+***	9200	8000	8000
0.010	5.0 × 10.0 × 7.5			B32529C8103+***	6400	5600	6000
0.015	5.0 × 10.0 × 7.5			B32529C8153+***	6400	5600	6000
0.022	7.8 × 13.0 × 7.8			B32529C8223+***	5200	4400	4000
0.033	7.8 × 13.0 × 7.8			B32529C8333+***	4000	3200	4000

MOQ = Minimum Order Quantity, consisting of 4 packing units.

Further E series and intermediate capacitance values on request.

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