Metallized Polypropylene Capacitors (MKP/MFP)

Series/Type: **B32632 ... B32634**

The following products presented in this data sheet are being withdrawn.

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B7682M289		2015-07-24	2016-01-31	2016-07-31
B32632B7682M189		2015-07-24	2016-01-31	2016-07-31
B32632B7682M020		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B7682M010		2015-07-24	2016-01-31	2016-07-31
B32632B7682M008		2015-07-24	2016-01-31	2016-07-31
B32632B7682K289		2015-07-24	2016-01-31	2016-07-31
B32632B7682K189		2015-07-24	2016-01-31	2016-07-31
B32632B7682K020		2015-07-24	2016-01-31	2016-07-31
B32632B7682K010		2015-07-24	2016-01-31	2016-07-31
B32632B7682K008		2015-07-24	2016-01-31	2016-07-31
B32632B7682J289		2015-07-24	2016-01-31	2016-07-31
B32632B7682J189		2015-07-24	2016-01-31	2016-07-31
B32632B7682J020		2015-07-24	2016-01-31	2016-07-31
B32632B7682J010		2015-07-24	2016-01-31	2016-07-31
B32632B7682J008		2015-07-24	2016-01-31	2016-07-31
B32632B7472M289		2015-07-24	2016-01-31	2016-07-31
B32632B7472M189		2015-07-24	2016-01-31	2016-07-31
B32632B7472M020		2015-07-24	2016-01-31	2016-07-31
B32632B7472M010		2015-07-24	2016-01-31	2016-07-31
B32632B7472M008		2015-07-24	2016-01-31	2016-07-31
B32632B7472K289		2015-07-24	2016-01-31	2016-07-31
B32632B7472K189		2015-07-24	2016-01-31	2016-07-31
B32632B7472K020		2015-07-24	2016-01-31	2016-07-31
B32632B7472K010		2015-07-24	2016-01-31	2016-07-31
B32632B7472K008		2015-07-24	2016-01-31	2016-07-31
B32632B7472J289		2015-07-24	2016-01-31	2016-07-31
B32632B7472J189		2015-07-24	2016-01-31	2016-07-31
B32632B7472J020		2015-07-24	2016-01-31	2016-07-31
B32632B7472J010		2015-07-24	2016-01-31	2016-07-31
B32632B7472J008		2015-07-24	2016-01-31	2016-07-31
B32632B7332M289		2015-07-24	2016-01-31	2016-07-31
B32632B7332M189		2015-07-24	2016-01-31	2016-07-31
B32632B7332M020		2015-07-24	2016-01-31	2016-07-31
B32632B7332M010		2015-07-24	2016-01-31	2016-07-31
B32632B7332M008		2015-07-24	2016-01-31	2016-07-31
B32632B7332K289		2015-07-24	2016-01-31	2016-07-31
B32632B7332K189		2015-07-24	2016-01-31	2016-07-31
B32632B7332K020		2015-07-24	2016-01-31	2016-07-31
B32632B7332K010		2015-07-24	2016-01-31	2016-07-31
B32632B7332K008		2015-07-24	2016-01-31	2016-07-31
B32632B7332J289		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B7332J189		2015-07-24	2016-01-31	2016-07-31
B32632B7332J020		2015-07-24	2016-01-31	2016-07-31
B32632B7332J010		2015-07-24	2016-01-31	2016-07-31
B32632B7332J008		2015-07-24	2016-01-31	2016-07-31
B32632B7222M289		2015-07-24	2016-01-31	2016-07-31
B32632B7222M189		2015-07-24	2016-01-31	2016-07-31
B32632B7222M020		2015-07-24	2016-01-31	2016-07-31
B32632B7222M010		2015-07-24	2016-01-31	2016-07-31
B32632B7222M008		2015-07-24	2016-01-31	2016-07-31
B32632B7222K289		2015-07-24	2016-01-31	2016-07-31
B32632B7222K189		2015-07-24	2016-01-31	2016-07-31
B32632B7222K020		2015-07-24	2016-01-31	2016-07-31
B32632B7222K010		2015-07-24	2016-01-31	2016-07-31
B32632B7222K008		2015-07-24	2016-01-31	2016-07-31
B32632B7222J289		2015-07-24	2016-01-31	2016-07-31
B32632B7222J189		2015-07-24	2016-01-31	2016-07-31
B32632B7222J020		2015-07-24	2016-01-31	2016-07-31
B32632B7222J010		2015-07-24	2016-01-31	2016-07-31
B32632B7222J008		2015-07-24	2016-01-31	2016-07-31
B32632B7153M289		2015-07-24	2016-01-31	2016-07-31
B32632B7153M189		2015-07-24	2016-01-31	2016-07-31
B32632B7153M020		2015-07-24	2016-01-31	2016-07-31
B32632B7153M010		2015-07-24	2016-01-31	2016-07-31
B32632B7153M008		2015-07-24	2016-01-31	2016-07-31
B32632B7153K289		2015-07-24	2016-01-31	2016-07-31
B32632B7153K189		2015-07-24	2016-01-31	2016-07-31
B32632B7153K020		2015-07-24	2016-01-31	2016-07-31
B32632B7153K010		2015-07-24	2016-01-31	2016-07-31
B32632B7153K008		2015-07-24	2016-01-31	2016-07-31
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B32632B7153J189		2015-07-24	2016-01-31	2016-07-31
B32632B7153J020		2015-07-24	2016-01-31	2016-07-31
B32632B7153J010		2015-07-24	2016-01-31	2016-07-31
B32632B7153J008		2015-07-24	2016-01-31	2016-07-31
B32632B7152M289		2015-07-24	2016-01-31	2016-07-31
B32632B7152M189		2015-07-24	2016-01-31	2016-07-31
B32632B7152M020		2015-07-24	2016-01-31	2016-07-31
B32632B7152M010		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B7152M008		2015-07-24	2016-01-31	2016-07-31
B32632B7152K289		2015-07-24	2016-01-31	2016-07-31
B32632B7152K189		2015-07-24	2016-01-31	2016-07-31
B32632B7152K020		2015-07-24	2016-01-31	2016-07-31
B32632B7152K010		2015-07-24	2016-01-31	2016-07-31
B32632B7152K008		2015-07-24	2016-01-31	2016-07-31
B32632B7152J289		2015-07-24	2016-01-31	2016-07-31
B32632B7152J189		2015-07-24	2016-01-31	2016-07-31
B32632B7152J020		2015-07-24	2016-01-31	2016-07-31
B32632B7152J010		2015-07-24	2016-01-31	2016-07-31
B32632B7152J008		2015-07-24	2016-01-31	2016-07-31
B32632B7103M289		2015-07-24	2016-01-31	2016-07-31
B32632B7103M189		2015-07-24	2016-01-31	2016-07-31
B32632B7103M020		2015-07-24	2016-01-31	2016-07-31
B32632B7103M010		2015-07-24	2016-01-31	2016-07-31
B32632B7103M008		2015-07-24	2016-01-31	2016-07-31
B32632B7103K289		2015-07-24	2016-01-31	2016-07-31
B32632B7103K189		2015-07-24	2016-01-31	2016-07-31
B32632B7103K020		2015-07-24	2016-01-31	2016-07-31
B32632B7103K010		2015-07-24	2016-01-31	2016-07-31
B32632B7103K008		2015-07-24	2016-01-31	2016-07-31
B32632B7103J289		2015-07-24	2016-01-31	2016-07-31
B32632B7103J189		2015-07-24	2016-01-31	2016-07-31
B32632B7103J020		2015-07-24	2016-01-31	2016-07-31
B32632B7103J010		2015-07-24	2016-01-31	2016-07-31
B32632B7103J008		2015-07-24	2016-01-31	2016-07-31
B32632B7102M289		2015-07-24	2016-01-31	2016-07-31
B32632B7102M189		2015-07-24	2016-01-31	2016-07-31
B32632B7102M020		2015-07-24	2016-01-31	2016-07-31
B32632B7102M010		2015-07-24	2016-01-31	2016-07-31
B32632B7102M008		2015-07-24	2016-01-31	2016-07-31
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B32632B7102K189		2015-07-24	2016-01-31	2016-07-31
B32632B7102K020		2015-07-24	2016-01-31	2016-07-31
B32632B7102K010		2015-07-24	2016-01-31	2016-07-31
B32632B7102K008		2015-07-24	2016-01-31	2016-07-31
B32632B7102J289		2015-07-24	2016-01-31	2016-07-31
B32632B7102J189		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B7102J020		2015-07-24	2016-01-31	2016-07-31
B32632B7102J010		2015-07-24	2016-01-31	2016-07-31
B32632B7102J008		2015-07-24	2016-01-31	2016-07-31
B32632B6682M289		2015-07-24	2016-01-31	2016-07-31
B32632B6682M189		2015-07-24	2016-01-31	2016-07-31
B32632B6682M020		2015-07-24	2016-01-31	2016-07-31
B32632B6682M010		2015-07-24	2016-01-31	2016-07-31
B32632B6682M008		2015-07-24	2016-01-31	2016-07-31
B32632B6682K289		2015-07-24	2016-01-31	2016-07-31
B32632B6682K189		2015-07-24	2016-01-31	2016-07-31
B32632B6682K020		2015-07-24	2016-01-31	2016-07-31
B32632B6682K010		2015-07-24	2016-01-31	2016-07-31
B32632B6682K008		2015-07-24	2016-01-31	2016-07-31
B32632B6682J289		2015-07-24	2016-01-31	2016-07-31
B32632B6682J189		2015-07-24	2016-01-31	2016-07-31
B32632B6682J020		2015-07-24	2016-01-31	2016-07-31
B32632B6682J010		2015-07-24	2016-01-31	2016-07-31
B32632B6682J008		2015-07-24	2016-01-31	2016-07-31
B32632B6473M289		2015-07-24	2016-01-31	2016-07-31
B32632B6473M189		2015-07-24	2016-01-31	2016-07-31
B32632B6473M020		2015-07-24	2016-01-31	2016-07-31
B32632B6473M010		2015-07-24	2016-01-31	2016-07-31
B32632B6473M008		2015-07-24	2016-01-31	2016-07-31
B32632B6473K289		2015-07-24	2016-01-31	2016-07-31
B32632B6473K189		2015-07-24	2016-01-31	2016-07-31
B32632B6473K020		2015-07-24	2016-01-31	2016-07-31
B32632B6473K010		2015-07-24	2016-01-31	2016-07-31
B32632B6473K008		2015-07-24	2016-01-31	2016-07-31
B32632B6473J289		2015-07-24	2016-01-31	2016-07-31
B32632B6473J189		2015-07-24	2016-01-31	2016-07-31
B32632B6473J020		2015-07-24	2016-01-31	2016-07-31
B32632B6473J010		2015-07-24	2016-01-31	2016-07-31
B32632B6473J008		2015-07-24	2016-01-31	2016-07-31
B32632B6472M289		2015-07-24	2016-01-31	2016-07-31
B32632B6472M189		2015-07-24	2016-01-31	2016-07-31
B32632B6472M020		2015-07-24	2016-01-31	2016-07-31
B32632B6472M010		2015-07-24	2016-01-31	2016-07-31
B32632B6472M008		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B6472K289		2015-07-24	2016-01-31	2016-07-31
B32632B6472K189		2015-07-24	2016-01-31	2016-07-31
B32632B6472K020		2015-07-24	2016-01-31	2016-07-31
B32632B6472K010		2015-07-24	2016-01-31	2016-07-31
B32632B6472K008		2015-07-24	2016-01-31	2016-07-31
B32632B6472J289		2015-07-24	2016-01-31	2016-07-31
B32632B6472J189		2015-07-24	2016-01-31	2016-07-31
B32632B6472J020		2015-07-24	2016-01-31	2016-07-31
B32632B6472J010		2015-07-24	2016-01-31	2016-07-31
B32632B6472J008		2015-07-24	2016-01-31	2016-07-31
B32632B6333M289		2015-07-24	2016-01-31	2016-07-31
B32632B6333M189		2015-07-24	2016-01-31	2016-07-31
B32632B6333M020		2015-07-24	2016-01-31	2016-07-31
B32632B6333M010		2015-07-24	2016-01-31	2016-07-31
B32632B6333M008		2015-07-24	2016-01-31	2016-07-31
B32632B6333K289		2015-07-24	2016-01-31	2016-07-31
B32632B6333K189		2015-07-24	2016-01-31	2016-07-31
B32632B6333K020		2015-07-24	2016-01-31	2016-07-31
B32632B6333K010		2015-07-24	2016-01-31	2016-07-31
B32632B6333K008		2015-07-24	2016-01-31	2016-07-31
B32632B6333J289		2015-07-24	2016-01-31	2016-07-31
B32632B6333J189		2015-07-24	2016-01-31	2016-07-31
B32632B6333J020		2015-07-24	2016-01-31	2016-07-31
B32632B6333J010		2015-07-24	2016-01-31	2016-07-31
B32632B6333J008		2015-07-24	2016-01-31	2016-07-31
B32632B6332M289		2015-07-24	2016-01-31	2016-07-31
B32632B6332M189		2015-07-24	2016-01-31	2016-07-31
B32632B6332M020		2015-07-24	2016-01-31	2016-07-31
B32632B6332M010		2015-07-24	2016-01-31	2016-07-31
B32632B6332M008		2015-07-24	2016-01-31	2016-07-31
B32632B6332K289		2015-07-24	2016-01-31	2016-07-31
B32632B6332K189		2015-07-24	2016-01-31	2016-07-31
B32632B6332K020		2015-07-24	2016-01-31	2016-07-31
B32632B6332K010		2015-07-24	2016-01-31	2016-07-31
B32632B6332K008		2015-07-24	2016-01-31	2016-07-31
B32632B6332J289		2015-07-24	2016-01-31	2016-07-31
B32632B6332J189		2015-07-24	2016-01-31	2016-07-31
B32632B6332J020		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B6332J010		2015-07-24	2016-01-31	2016-07-31
B32632B6332J008		2015-07-24	2016-01-31	2016-07-31
B32632B6223M289		2015-07-24	2016-01-31	2016-07-31
B32632B6223M189		2015-07-24	2016-01-31	2016-07-31
B32632B6223M020		2015-07-24	2016-01-31	2016-07-31
B32632B6223M010		2015-07-24	2016-01-31	2016-07-31
B32632B6223M008		2015-07-24	2016-01-31	2016-07-31
B32632B6223K289		2015-07-24	2016-01-31	2016-07-31
B32632B6223K189		2015-07-24	2016-01-31	2016-07-31
B32632B6223K020		2015-07-24	2016-01-31	2016-07-31
B32632B6223K010		2015-07-24	2016-01-31	2016-07-31
B32632B6223K008		2015-07-24	2016-01-31	2016-07-31
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B32632B6223J189		2015-07-24	2016-01-31	2016-07-31
B32632B6223J020		2015-07-24	2016-01-31	2016-07-31
B32632B6223J010		2015-07-24	2016-01-31	2016-07-31
B32632B6223J008		2015-07-24	2016-01-31	2016-07-31
B32632B6222M289		2015-07-24	2016-01-31	2016-07-31
B32632B6222M189		2015-07-24	2016-01-31	2016-07-31
B32632B6222M020		2015-07-24	2016-01-31	2016-07-31
B32632B6222M010		2015-07-24	2016-01-31	2016-07-31
B32632B6222M008		2015-07-24	2016-01-31	2016-07-31
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B32632B6222K189		2015-07-24	2016-01-31	2016-07-31
B32632B6222K020		2015-07-24	2016-01-31	2016-07-31
B32632B6222K010		2015-07-24	2016-01-31	2016-07-31
B32632B6222K008		2015-07-24	2016-01-31	2016-07-31
B32632B6222J289		2015-07-24	2016-01-31	2016-07-31
B32632B6222J189		2015-07-24	2016-01-31	2016-07-31
B32632B6222J020		2015-07-24	2016-01-31	2016-07-31
B32632B6222J010		2015-07-24	2016-01-31	2016-07-31
B32632B6222J008		2015-07-24	2016-01-31	2016-07-31
B32632B6153M289		2015-07-24	2016-01-31	2016-07-31
B32632B6153M189		2015-07-24	2016-01-31	2016-07-31
B32632B6153M020		2015-07-24	2016-01-31	2016-07-31
B32632B6153M010		2015-07-24	2016-01-31	2016-07-31
B32632B6153M008		2015-07-24	2016-01-31	2016-07-31
B32632B6153K289		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B6153K189		2015-07-24	2016-01-31	2016-07-31
B32632B6153K020		2015-07-24	2016-01-31	2016-07-31
B32632B6153K010		2015-07-24	2016-01-31	2016-07-31
B32632B6153K008		2015-07-24	2016-01-31	2016-07-31
B32632B6153J289		2015-07-24	2016-01-31	2016-07-31
B32632B6153J189		2015-07-24	2016-01-31	2016-07-31
B32632B6153J020		2015-07-24	2016-01-31	2016-07-31
B32632B6153J010		2015-07-24	2016-01-31	2016-07-31
B32632B6153J008		2015-07-24	2016-01-31	2016-07-31
B32632B6103M289		2015-07-24	2016-01-31	2016-07-31
B32632B6103M189		2015-07-24	2016-01-31	2016-07-31
B32632B6103M020		2015-07-24	2016-01-31	2016-07-31
B32632B6103M010		2015-07-24	2016-01-31	2016-07-31
B32632B6103M008		2015-07-24	2016-01-31	2016-07-31
B32632B6103K289		2015-07-24	2016-01-31	2016-07-31
B32632B6103K189		2015-07-24	2016-01-31	2016-07-31
B32632B6103K020		2015-07-24	2016-01-31	2016-07-31
B32632B6103K010		2015-07-24	2016-01-31	2016-07-31
B32632B6103K008		2015-07-24	2016-01-31	2016-07-31
B32632B6103J289		2015-07-24	2016-01-31	2016-07-31
B32632B6103J189		2015-07-24	2016-01-31	2016-07-31
B32632B6103J020		2015-07-24	2016-01-31	2016-07-31
B32632B6103J010		2015-07-24	2016-01-31	2016-07-31
B32632B6103J008		2015-07-24	2016-01-31	2016-07-31
B32632B4681K289		2015-07-24	2016-01-31	2016-07-31
B32632B4681K189		2015-07-24	2016-01-31	2016-07-31
B32632B4681K020		2015-07-24	2016-01-31	2016-07-31
B32632B4681K010		2015-07-24	2016-01-31	2016-07-31
B32632B4681K008		2015-07-24	2016-01-31	2016-07-31
B32632B4471K289		2015-07-24	2016-01-31	2016-07-31
B32632B4471K189		2015-07-24	2016-01-31	2016-07-31
B32632B4471K020		2015-07-24	2016-01-31	2016-07-31
B32632B4471K010		2015-07-24	2016-01-31	2016-07-31
B32632B4471K008		2015-07-24	2016-01-31	2016-07-31
B32632B4222M289		2015-07-24	2016-01-31	2016-07-31
B32632B4222M189		2015-07-24	2016-01-31	2016-07-31
B32632B4222M020		2015-07-24	2016-01-31	2016-07-31
B32632B4222M010		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
B32632B4222M008		2015-07-24	2016-01-31	2016-07-31
B32632B4222K289		2015-07-24	2016-01-31	2016-07-31
B32632B4222K189		2015-07-24	2016-01-31	2016-07-31
B32632B4222K020		2015-07-24	2016-01-31	2016-07-31
B32632B4222K010		2015-07-24	2016-01-31	2016-07-31
B32632B4222K008		2015-07-24	2016-01-31	2016-07-31
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B32632B4222J020		2015-07-24	2016-01-31	2016-07-31
B32632B4222J010		2015-07-24	2016-01-31	2016-07-31
B32632B4222J008		2015-07-24	2016-01-31	2016-07-31
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B32632B4152J020		2015-07-24	2016-01-31	2016-07-31
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B32632B4102M008		2015-07-24	2016-01-31	2016-07-31
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B32632B4102K008		2015-07-24	2016-01-31	2016-07-31
B32632B4102J289		2015-07-24	2016-01-31	2016-07-31
B32632B4102J189		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
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B32632B4102J008		2015-07-24	2016-01-31	2016-07-31
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B32632B2682M189		2015-07-24	2016-01-31	2016-07-31
B32632B2682M020		2015-07-24	2016-01-31	2016-07-31
B32632B2682M010		2015-07-24	2016-01-31	2016-07-31
B32632B2682M008		2015-07-24	2016-01-31	2016-07-31
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B32632B2682K189		2015-07-24	2016-01-31	2016-07-31
B32632B2682K020		2015-07-24	2016-01-31	2016-07-31
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B32632B2682J189		2015-07-24	2016-01-31	2016-07-31
B32632B2682J020		2015-07-24	2016-01-31	2016-07-31
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B32632B2472K189		2015-07-24	2016-01-31	2016-07-31
B32632B2472K020		2015-07-24	2016-01-31	2016-07-31
B32632B2472K010		2015-07-24	2016-01-31	2016-07-31
B32632B2472K008		2015-07-24	2016-01-31	2016-07-31
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B32632B2472J189		2015-07-24	2016-01-31	2016-07-31
B32632B2472J020		2015-07-24	2016-01-31	2016-07-31
B32632B2472J010		2015-07-24	2016-01-31	2016-07-31
B32632B2472J008		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
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B32632B2471M189		2015-07-24	2016-01-31	2016-07-31
B32632B2471M020		2015-07-24	2016-01-31	2016-07-31
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B32632B2332M020		2015-07-24	2016-01-31	2016-07-31
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B32632B2332J020		2015-07-24	2016-01-31	2016-07-31
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B32632B2152M020		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
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B32632B2152K020		2015-07-24	2016-01-31	2016-07-31
B32632B2152K010		2015-07-24	2016-01-31	2016-07-31
B32632B2152K008		2015-07-24	2016-01-31	2016-07-31
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B32632B2152J189		2015-07-24	2016-01-31	2016-07-31
B32632B2152J020		2015-07-24	2016-01-31	2016-07-31
B32632B2152J010		2015-07-24	2016-01-31	2016-07-31
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B32632B2102M020		2015-07-24	2016-01-31	2016-07-31
B32632B2102M010		2015-07-24	2016-01-31	2016-07-31
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B32632B2102K189		2015-07-24	2016-01-31	2016-07-31
B32632B2102K020		2015-07-24	2016-01-31	2016-07-31
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B32632B1682K010		2015-07-24	2016-01-31	2016-07-31
B32632B1682K008		2015-07-24	2016-01-31	2016-07-31
B32632B1682J289		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
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B32632B1472M189		2015-07-24	2016-01-31	2016-07-31
B32632B1472M020		2015-07-24	2016-01-31	2016-07-31
B32632B1472M010		2015-07-24	2016-01-31	2016-07-31
B32632B1472M008		2015-07-24	2016-01-31	2016-07-31
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B32632B1472K189		2015-07-24	2016-01-31	2016-07-31
B32632B1472K020		2015-07-24	2016-01-31	2016-07-31
B32632B1472K010		2015-07-24	2016-01-31	2016-07-31
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B32632B1472J020		2015-07-24	2016-01-31	2016-07-31
B32632B1472J010		2015-07-24	2016-01-31	2016-07-31
B32632B1472J008		2015-07-24	2016-01-31	2016-07-31
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B32632B1332M008		2015-07-24	2016-01-31	2016-07-31
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B32632B1332J020		2015-07-24	2016-01-31	2016-07-31
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B32632B1222M189		2015-07-24	2016-01-31	2016-07-31
B32632B1222M020		2015-07-24	2016-01-31	2016-07-31
B32632B1222M010		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
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B32632B1222K189		2015-07-24	2016-01-31	2016-07-31
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B32632B1222J020		2015-07-24	2016-01-31	2016-07-31
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B32632B1152M189		2015-07-24	2016-01-31	2016-07-31
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B32632B1152M010		2015-07-24	2016-01-31	2016-07-31
B32632B1152M008		2015-07-24	2016-01-31	2016-07-31
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B32632B1152K189		2015-07-24	2016-01-31	2016-07-31
B32632B1152K020		2015-07-24	2016-01-31	2016-07-31
B32632B1152K010		2015-07-24	2016-01-31	2016-07-31
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B32632B1152J020		2015-07-24	2016-01-31	2016-07-31
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B32632B1103K008		2015-07-24	2016-01-31	2016-07-31
B32632B1103J289		2015-07-24	2016-01-31	2016-07-31
B32632B1103J189		2015-07-24	2016-01-31	2016-07-31

Ordering Code	Substitute Product	Date of Withdrawal	Deadline Last Orders	Last Shipments
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B32632B1103J008		2015-07-24	2016-01-31	2016-07-31
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B32632B1102K189		2015-07-24	2016-01-31	2016-07-31
B32632B1102K020		2015-07-24	2016-01-31	2016-07-31
B32632B1102K010		2015-07-24	2016-01-31	2016-07-31
B32632B1102K008		2015-07-24	2016-01-31	2016-07-31
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B32632B1102J189		2015-07-24	2016-01-31	2016-07-31
B32632B1102J020		2015-07-24	2016-01-31	2016-07-31
B32632B1102J010		2015-07-24	2016-01-31	2016-07-31
B32632B1102J008		2015-07-24	2016-01-31	2016-07-31

For further information please contact your nearest EPCOS sales office, which will also support you in selecting a suitable substitute. The addresses of our worldwide sales network are presented at www.epcos.com/sales.

Typical applications
- Smoothing
- High-frequency AC loads
- Switch-mode power supplies
- Electronic ballasts
- HID lamps

Climatic
- Max. operating temperature: 110 °C
- Climatic category (IEC 60068-1): 55/100/56

Construction
- Dielectric: polypropylene (PP)
- Film metallized on one side and metal foils internally connected in series
- Contact layer of sprayed metal
- Wound capacitor technology
- Epoxy resin coating (UL 94 V-0)

Features
- Highest possible contact reliability
- Very high pulse strength
- Self-healing properties
- RoHS-compatible

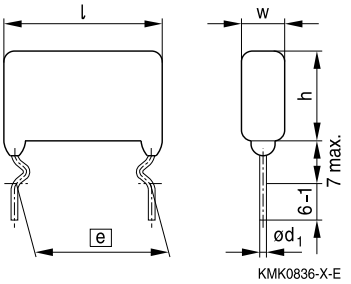
Terminals
- Crimped wire leads, lead-free tinned, lead length (6 −1 mm)
- Double crimped wire leads, lead-free tinned
- Straight wire leads, lead-free tinned, lead length (17 ±3 mm)
- Different lead spacings (reduced and enlarged) available, lead length (6 −1 mm)

Marking
Manufacturer's logo, style and type (P63x),
rated capacitance (coded),
capacitance tolerance (code letter),
rated DC voltage, date of manufacture (coded)

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

Dimensional drawings

Crimped leads



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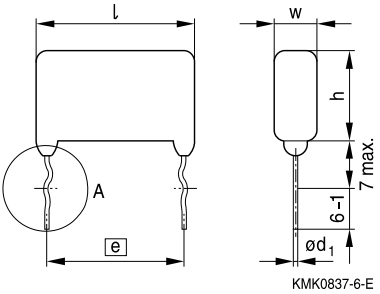
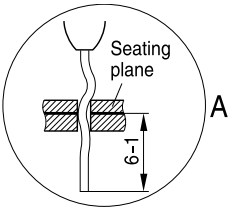
Double crimped leads



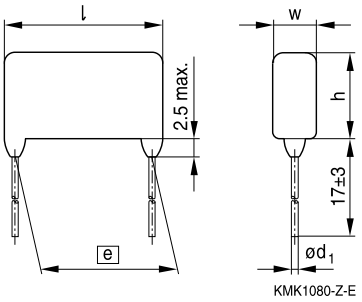
KMK0837-6-E

Detail of double crimped version



KMK0854-V-E

Straight leads



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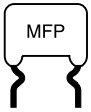
Dimensions in mm

Lead spacing e ±0.8	Lead diameter d_1	Type
15.0	0.8	B32632
22.5	0.8	B32633
27.5	0.8	B32634



B32632 ... B32634

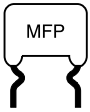
Very high pulse (wound)

Overview of available types

Lead spacing	15.0 mm					22.5 mm					
Type	B32632					B32633					
V_R (V DC)	630	1250	1600	2000	3000	630	1250	1600	2000	2500	3000
V_{RMS} (V AC)	300	450	450	500	750	300	450	450	500	750	750
C_R (nF)											
0.47											
0.68											
1.0											
1.5											
2.2											
3.3											
4.7											
6.8											
10											
15											
22											
33											
47											
68											
100											

Lead configurations

Series	Standard	Reduced	Straight	Double crimped
				
B32632	15 mm	7.5 / 10 / 12.5 mm	15 mm	15 mm
B32633	22.5 mm	15 / 17.5 / 20 mm	22.5 mm	22.5 mm
B32634	27.5 mm	25 mm	27.5 mm	27.5 mm

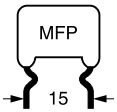


Overview of available types

Lead spacing	27.5 mm			
Type	B32634			
V_R (V DC)	630	1250	1600	2000
V_{RMS} (V AC)	300	450	450	500
C_R (nF)				
10				
15				
22				
33				
47				
68				
100				
150				
220				
330				

Lead configurations

Series	Standard	Reduced	Straight	Double crimped
				
B32632	15 mm	7.5 / 10 / 12.5 mm	15 mm	15 mm
B32633	22.5 mm	15 / 17.5 / 20 mm	22.5 mm	22.5 mm
B32634	27.5 mm	25 mm	27.5 mm	27.5 mm



B32632

Very high pulse (wound)

Ordering codes and packing units (lead spacing 15 mm)

V_R	V_{RMS} f ≤1 kHz	C_R	Max. dimensions w × h × l	Ordering code (composition see	Ammo pack	Reel	Untaped
V DC	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
630	300	2.2	6.0 × 11.5 × 18.5	B32632B6222+***	3600	4800	4000
		3.3	6.0 × 11.5 × 18.5	B32632B6332+***	3600	4800	4000
		4.7	6.0 × 11.5 × 18.5	B32632B6472+***	3600	4800	4000
		6.8	6.0 × 11.5 × 18.5	B32632B6682+***	3600	4800	4000
		10	6.0 × 11.5 × 18.5	B32632B6103+***	3600	4800	4000
		15	6.5 × 12.0 × 18.5	B32632B6153+***	3200	4000	4000
		22	7.5 × 13.5 × 18.5	B32632B6223+***	2800	3600	4000
		33	9.0 × 15.0 × 18.5	B32632B6333+***	2400	3200	2000
		47	11.0 × 16.5 × 18.5	B32632B6473+***	1800	2400	2000
1250	450	1.0	6.0 × 11.5 × 18.5	B32632B7102+***	3400	4400	4000
		1.5	6.0 × 11.5 × 18.5	B32632B7152+***	3400	4400	4000
		2.2	6.5 × 12.0 × 18.5	B32632B7222+***	3400	4400	4000
		3.3	6.5 × 12.0 × 18.5	B32632B7332+***	3200	4000	4000
		4.7	7.0 × 12.5 × 18.5	B32632B7472+***	3200	4000	4000
		6.8	7.5 × 14.0 × 18.5	B32632B7682+***	3000	4000	4000
		10	9.0 × 15.0 × 18.5	B32632B7103+***	2400	3200	2000
		15	11.5 × 16.5 × 18.5	B32632B7153+***	1800	2400	2000

MOQ = Minimum Order Quantity, consisting of 4 packing units.
B32632B2471M*** and B32632B2681M*** are only available in M tolerance.
B32632B4471K*** and B32632B4681K*** are only available in K tolerance.
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
- 010 = Untaped crimped (lead length 6 −1 mm)
- 008 = Untaped straight (lead length 17±3 mm)
- 020 = Double crimped (lead length 6 −1 mm)

Packaging codes for further lead configurations (untaped):

Lead configuration (lead length 6 −1 mm)	Reduced	Reduced	Reduced	Enlarged
Lead spacing (mm)	7.5 mm	10 mm	12.5 mm	17.5 mm
Packaging code	030	040	050	060

Ordering codes and packing units (lead spacing 15 mm)

V_R	V_{RMS} f ≤1 kHz	C_R	Max. dimensions w × h × l	Ordering code (composition see	Ammo pack	Reel	Untaped
V DC	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
1600	450	1.0	6.0 × 11.5 × 18.5	B32632B1102+***	3600	4800	4000
		1.5	6.0 × 11.5 × 18.5	B32632B1152+***	3600	4800	4000
		2.2	6.5 × 12.0 × 18.5	B32632B1222+***	3200	4000	4000
		3.3	7.5 × 13.0 × 18.5	B32632B1332+***	2800	3600	4000
		4.7	8.5 × 14.0 × 18.5	B32632B1472+***	2400	3200	4000
		6.8	9.5 × 15.0 × 18.5	B32632B1682+***	2000	2800	2000
		10	11.5 × 17.0 × 18.5	B32632B1103+***	1800	2400	2000
2000	500	0.47	6.5 × 11.5 × 18.5	B32632B2471M***	3400	4400	4000
		0.68	6.5 × 12.0 × 18.5	B32632B2681M***	3400	4400	4000
		1.0	6.5 × 12.0 × 18.5	B32632B2102+***	3400	4400	4000
		1.5	6.5 × 12.0 × 18.5	B32632B2152+***	3400	4400	4000
		2.2	7.0 × 13.0 × 18.5	B32632B2222+***	2400	4000	2000
		3.3	8.5 × 14.5 × 18.5	B32632B2332+***	2600	3400	2000
		4.7	10.0 × 16.0 × 18.5	B32632B2472+***	2000	2800	2000
		6.8	12.0 × 17.5 × 18.5	B32632B2682+***	1800	2400	2000
3000	750	0.47	6.5 × 11.5 × 18.5	B32632B4471K***	4000	5200	4000
		0.68	7.0 × 13.0 × 18.5	B32632B4681K***	3600	4800	4000
		1.0	8.5 × 14.0 × 18.5	B32632B4102+***	3000	4000	2000
		1.5	9.5 × 16.5 × 18.5	B32632B4152+***	2600	3400	2000
		2.2	12.0 × 17.5 × 18.5	B32632B4222+***	2000	2800	2000

MOQ = Minimum Order Quantity, consisting of 4 packing units.
B32632B2471M*** and B32632B2681M*** are only available in M tolerance.
B32632B4471K*** and B32632B4681K*** are only available in K tolerance.
Further E series and intermediate capacitance values on request.

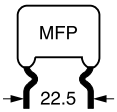
Composition of ordering code

+ = Capacitance tolerance code:
- M = ±20%
- K = ±10%
- J = ±5%

*** = Packaging code:
- 289 = Ammo pack
- 189 = Reel
- 010 = Untaped crimped (lead length 6 −1 mm)
- 008 = Untaped straight (lead length 17±3 mm)
- 020 = Double crimped (lead length 6 −1 mm)

Packaging codes for further lead configurations (untaped):

Lead configuration (lead length 6 −1 mm)	Reduced	Reduced	Reduced	Enlarged
Lead spacing (mm)	7.5 mm	10 mm	12.5 mm	17.5 mm
Packaging code	030	040	050	060



B32633

Very high pulse (wound)

Ordering codes and packing units (lead spacing 22.5 mm)

V_R	V_{RMS} f ≤1 kHz	C_R	Max. dimensions w × h × l	Ordering code (composition see	Ammo pack	Reel	Untaped
V DC	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
630	300	22	6.5 × 12.0 × 27.0	B32633B6223+***	2200	3000	4000
		33	7.0 × 14.0 × 27.0	B32633B6333+***	2000	2800	2000
		47	7.5 × 14.5 × 27.0	B32633B6473+***	1800	2400	2000
		68	9.0 × 16.0 × 27.0	B32633B6683+***	1400	2000	2000
		100	10.5 × 18.5 × 27.0	B32633B6104+***	1200	1600	1000
1250	450	10	7.0 × 14.0 × 27.0	B32633B7103+***	2000	2800	2000
		15	8.0 × 15.5 × 27.0	B32633B7153+***	1800	2400	2000
		22	9.5 × 16.5 × 27.0	B32633B7223+***	1400	2000	2000
		33	11.5 × 19.0 × 27.0	B32633B7333+***	1200	1600	1000
		47	13.5 × 20.5 × 27.0	B32633B7473+***	1000	1400	1000
1600	450	3.3	6.5 × 12.5 × 27.0	B32633B1332+***	2000	2800	4000
		4.7	6.5 × 12.5 × 27.0	B32633B1472+***	2000	2800	4000
		6.8	7.0 × 14.5 × 27.0	B32633B1682+***	2000	2400	2000
		10	8.0 × 15.5 × 27.0	B32633B1103+***	1800	2600	2000
		15	9.5 × 17.0 × 27.0	B32633B1153+***	1400	2000	1000
		22	11.5 × 19.0 × 27.0	B32633B1223+***	1200	1600	1000
		33	14.5 × 22.0 × 27.0	B32633B1333+***	1000	1200	1000
2000	500	2.2	6.5 × 13.0 × 27.0	B32633B2222+***	2000	2800	4000
		3.3	6.5 × 13.0 × 27.0	B32633B2332+***	2000	2800	4000
		4.7	7.0 × 14.5 × 27.0	B32633B2472+***	2000	2800	2000
		6.8	8.5 × 16.0 × 27.0	B32633B2682+***	1600	2200	2000
		10	10.0 × 17.0 × 27.0	B32633B2103+***	1400	1800	1000
		15	12.0 × 19.5 × 27.0	B32633B2153+***	1000	1400	1000
		22	14.5 × 22.0 × 27.0	B32633B2223+***	800	1200	1000

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

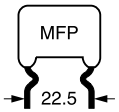
Composition of ordering code

+ = Capacitance tolerance code:
K = ±10%
J = ±5%

*** = Packaging code:
289 = Ammo pack
189 = Reel
010 = Untaped crimped (lead length 6 −1 mm)
008 = Untaped straight (lead length 17±3 mm)
020 = Double crimped (lead length 6 −1 mm)

Packaging codes for further lead configurations (untaped):

Lead configuration (lead length 6 −1 mm)	Reduced	Reduced	Reduced	Enlarged
Lead spacing (mm)	15 mm	17.5 mm	20 mm	25 mm
Packaging code	055	060	070	080



Ordering codes and packing units (lead spacing 22.5 mm)

V_R	V_{RMS} f ≤1 kHz	C_R	Max. dimensions w × h × l	Ordering code (composition see	Ammo pack	Reel	Untaped
V DC	V AC	nF	mm	below)	pcs./MOQ	pcs./MOQ	pcs./MOQ
2500	750	1.0	7.0 × 13.5 × 27.0	B32633B3102+***	1800	2600	4000
		1.5	7.0 × 14.0 × 27.0	B32633B3152+***	1800	2600	4000
		2.2	7.5 × 15.0 × 27.0	B32633B3222+***	1800	2400	2000
		3.3	9.0 × 16.0 × 27.0	B32633B3332+***	1400	2000	2000
		4.7	10.0 × 18.0 × 27.0	B32633B3472+***	1400	2000	2000
		6.8	12.0 × 20.5 × 27.0	B32633B3682+***	1200	1600	1000
		10	14.0 × 23.0 × 27.0	B32633B3103+***	1000	1400	1000
		15	17.0 × 26.0 × 27.0	B32633B3153+***	800	1200	800
3000	750	1.0	6.5 × 12.0 × 27.0	B32633B4102+***	2600	3600	2000
		1.5	7.5 × 13.5 × 27.0	B32633B4152+***	2200	3000	2000
		2.2	8.5 × 15.0 × 27.0	B32633B4222+***	1800	2600	2000
		3.3	10.0 × 17.0 × 27.0	B32633B4332+***	1600	2200	2000
		4.7	11.5 × 19.0 × 27.0	B32633B4472+***	1200	1800	2000
		6.8	13.0 × 22.0 × 27.0	B32633B4682+***	1000	1400	800

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

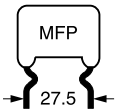
Composition of ordering code

+ = Capacitance tolerance code:
K = ±10%
J = ±5%

*** = Packaging code:
289 = Ammo pack
189 = Reel
010 = Untaped crimped (lead length 6 −1 mm)
008 = Untaped straight (lead length 17±3 mm)
020 = Double crimped (lead length 6 −1 mm)

Packaging codes for further lead configurations (untaped):

Lead configuration (lead length 6 −1 mm)	Reduced	Reduced	Reduced	Enlarged
Lead spacing (mm)	15 mm	17.5 mm	20 mm	25 mm
Packaging code	055	060	070	080



B32634

Very high pulse (wound)

Ordering codes and packing units (lead spacing 27.5 mm)

V_R	V_{RMS} f ≤1 kHz	C_R	Max. dimensions w × h × l	Ordering code (composition see	Untaped
V DC	V AC	nF	mm	below)	pcs./MOQ
630	300	100	9.5 × 18.0 × 32.0	B32634B6104+***	1000
		150	11.5 × 20.5 × 32.0	B32634B6154+***	800
		220	13.5 × 22.5 × 32.0	B32634B6224+***	800
		330	16.0 × 25.5 × 32.0	B32634B6334+***	600
1250	450	33	9.5 × 18.0 × 32.0	B32634B7333+***	1000
		47	11.5 × 20.0 × 32.0	B32634B7473+***	1000
		68	13.0 × 23.0 × 32.0	B32634B7683+***	800
		100	16.0 × 26.0 × 32.0	B32634B7104+***	600
1600	450	15	8.5 × 17.0 × 32.0	B32634B1153+***	2000
		22	10.0 × 18.5 × 32.0	B32634B1223+***	1000
		33	12.0 × 21.5 × 32.0	B32634B1333+***	1000
		47	14.0 × 22.5 × 32.0	B32634B1473+***	800
		68	16.0 × 25.5 × 32.0	B32634B1683+***	600
2000	500	10	8.5 × 17.0 × 32.0	B32634A2103+***	2000
		15	10.0 × 19.5 × 32.0	B32634A2153+***	1000
		22	12.0 × 21.5 × 32.0	B32634A2223+***	1000
		33	15.0 × 24.0 × 32.0	B32634A2333+***	800

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:
K = ±10%
J = ±5%

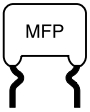
*** = Packaging code:
010 = Untaped crimped (lead length 6 −1 mm)
008 = Untaped straight (lead length 17±3 mm)
020 = Double crimped (lead length 6 −1 mm)

Packaging codes for further lead configurations (untaped):

Lead configuration (lead length 6 −1 mm)	Reduced
Lead spacing (mm)	25 mm
Packaging code	090

Technical data

Operating temperature range	Max. operating temperature $T_{op,max}$		+110 °C
	Upper category temperature T_{max}		+100 °C
	Lower category temperature T_{min}		−55 °C
	Rated temperature T_R		+85 °C
Dissipation factor tan δ at 20 °C (upper limit values)	$1.0 \cdot 10^{-3}$ (at 10 kHz) $2.0 \cdot 10^{-3}$ (at 100 kHz)		
Insulation resistance R_{ins} at 20 °C, rel. humidity ≤ 65% (minimum as-delivered values)	100 GΩ		
DC test voltage	$2.0 \cdot V_R$, 2 s (B32632/3000 V DC: $1.2 \cdot V_R$, 2 s; B32633/3000 V DC: $1.6 \cdot V_R$, 2 s)		
Category voltage V_C (continuous operation with V_{DC} or V_{AC} at f ≤ 1 kHz)	T_A (°C)	DC voltage derating	AC voltage derating
	$T_A \leq 85$	$V_C = V_R$	$V_{C,RMS} = V_{RMS}$
	$85<T_A\leq100$	$V_C = V_R \cdot (165-T_A)/80$	$V_{C,RMS} = V_{RMS} \cdot (165-T_A)/80$
Operating voltage V_{op} for short operating periods (V_{DC} or V_{AC} at f ≤ 1 kHz)	T_A (°C)	DC voltage (max. hours)	AC voltage (max. hours)
	$T_A \leq 85$	$V_{op} = 1.25 \cdot V_C$ (2000 h)	$V_{op} = 1.0 \cdot V_{C,RMS}$ (2000 h)
	$85<T_A\leq100$	$V_{op} = 1.25 \cdot V_C$ (1000 h)	$V_{op} = 1.0 \cdot V_{C,RMS}$ (1000 h)
Damp heat test Limit values after damp heat test	56 days/40 °C/93% relative humidity		
	Capacitance change $\lvert\Delta C/C\rvert$		≤ 2%
	Dissipation factor change Δ tan δ		$\leq 1.0 \cdot 10^{-3}$ (at 10 kHz)
	Insulation resistance R_{ins}		≥ 50% of minimum as-delivered values
Reliability: Failure rate λ Service life t_{SL}	 1 fit ($\leq 2 \cdot 10^{-9}$/h) at $0.5 \cdot V_R$, 40 °C 200 000 h at $1.0 \cdot V_R$, 85 °C For conversion to other operating conditions and temperatures, refer to chapter "Quality, 2 Reliability".		
Failure criteria: Total failure	 Short circuit or open circuit		
Failure due to variation of parameters	Capacitance change $\lvert\Delta C/C\rvert$		> 10%
	Dissipation factor tan δ		> 4 · upper limit value
	Insulation resistance R_{ins}		< 1500 MΩ



B32632 ... B32634

Very high pulse (wound)

Pulse handling capability

"dV/dt" represents the maximum permissible voltage change per unit of time for non-sinusoidal voltages, expressed in V/µs.

"k_0" represents the maximum permissible pulse characteristic of the waveform applied to the capacitor, expressed in $V^2/\mu s$.

Note:
The values of dV/dt and k_0 provided below must not be exceeded in order to avoid damaging the capacitor.

dV/dt values

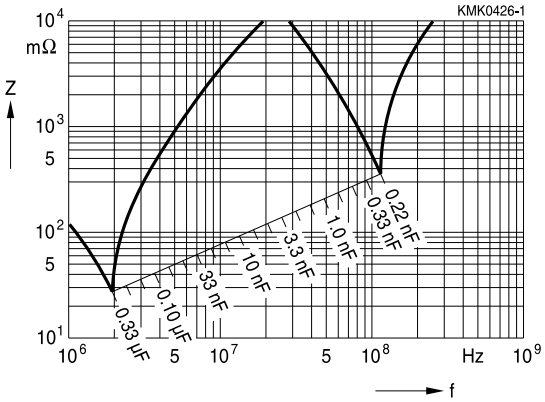
Lead spacing		15 mm	22.5 mm	27.5 mm
V_R V DC	V_{RMS} V AC	dV/dt in V/µs		
630	300	6 000	3 600	2 400
1250	450	14 400	8 400	5 400
1600	450	16 800	10 800	6 600
2000	500	20 400	14 400	8 400
2500	750	–	16 800	–
3000	750	21 600	18 000	–

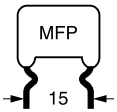
k_0 values

Lead spacing		15 mm	22.5 mm	27.5 mm
V_R V DC	V_{RMS} V AC	k_0 in $V^2/\mu s$		
630	300	7 560 000	4 536 000	3 024 000
1250	450	36 000 000	21 000 000	13 500 000
1600	450	53 760 000	34 560 000	21 120 000
2000	500	81 600 000	57 600 000	33 600 000
2500	750	–	84 000 000	–
3000	750	129 600 000	108 000 000	–

Impedance Z versus frequency f

(typical values)





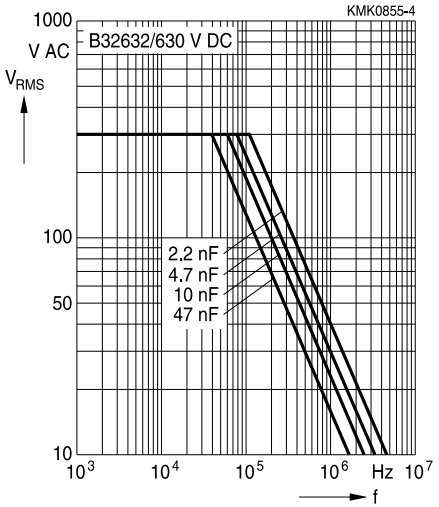
B32632

Very high pulse (wound)

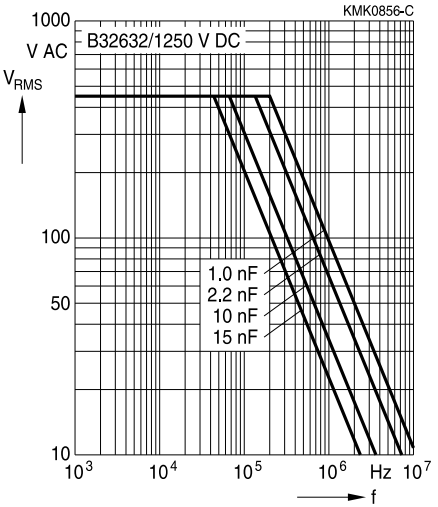
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)
For T_A >90 °C, please refer to "General technical information", section 3.2.3.

Lead spacing 15 mm

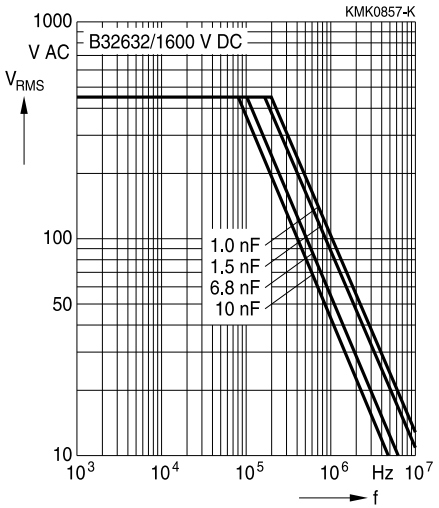
630 V DC/300 V AC



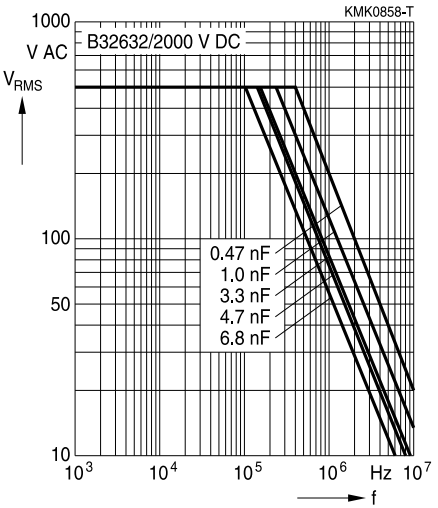
1250 V DC/450 V AC



1600 V DC/450 V AC

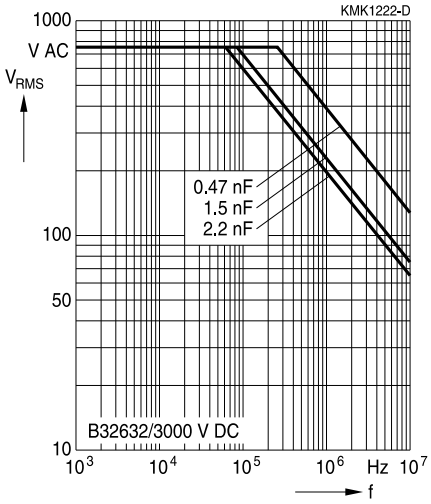


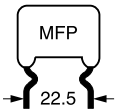
2000 V DC/500 V AC



Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)
For T_A >90 °C, please refer to "General technical information", section 3.2.3.

Lead spacing 15 mm
3000 V DC/750 V AC





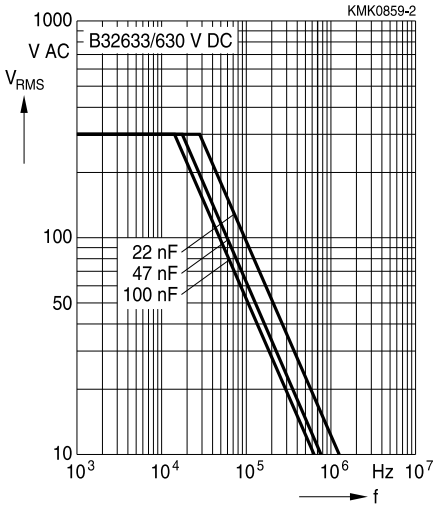
B32633

Very high pulse (wound)

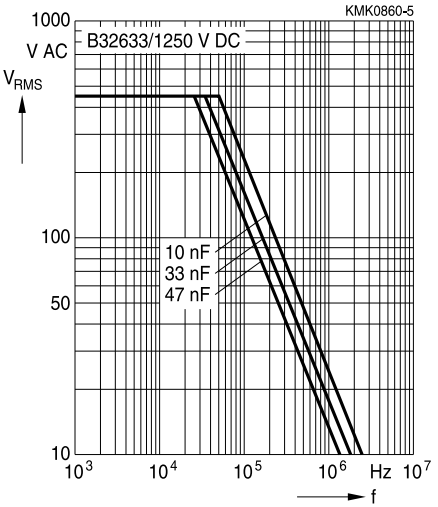
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)
For T_A >90 °C, please refer to "General technical information", section 3.2.3.

Lead spacing 22.5 mm

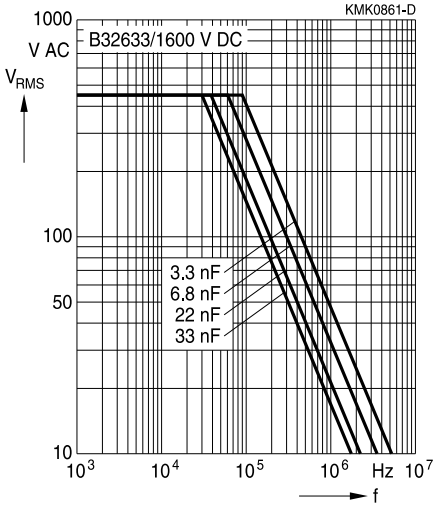
630 V DC/300 V AC



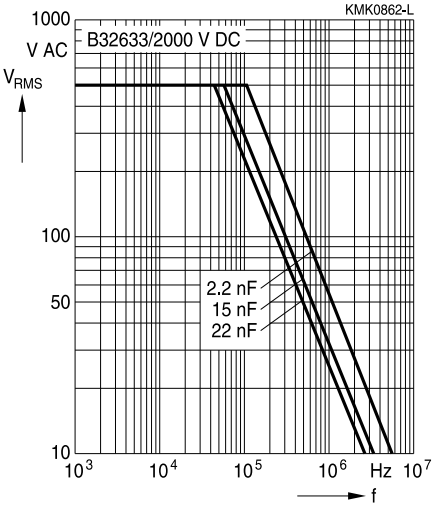
1250 V DC/450 V AC



1600 V DC/450 V AC



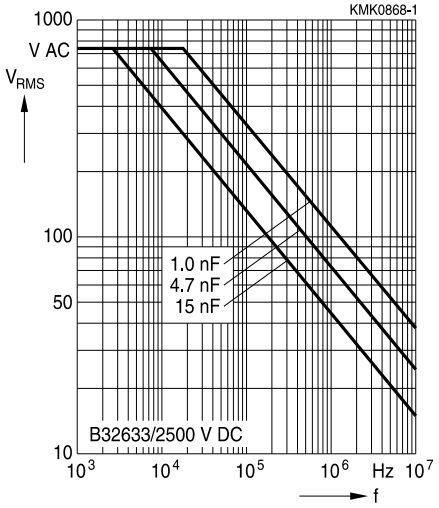
2000 V DC/500 V AC



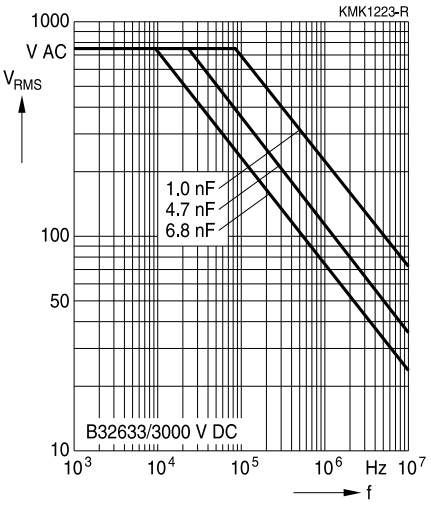
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)
For T_A >90 °C, please refer to "General technical information", section 3.2.3.

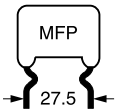
Lead spacing 22.5 mm

2500 V DC/750 V AC



3000 V DC/750 V AC





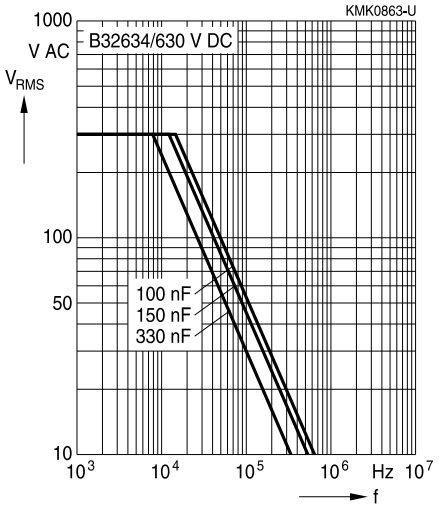
B32634

Very high pulse (wound)

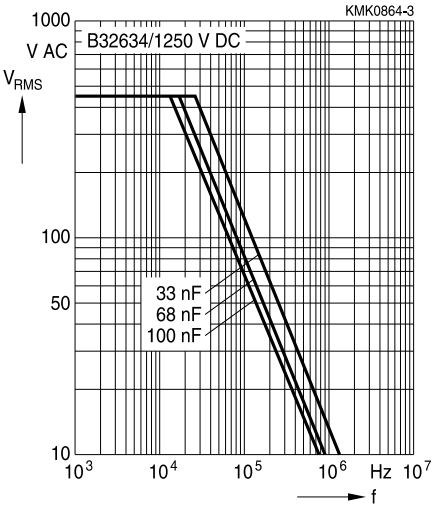
Permissible AC voltage V_{RMS} versus frequency f (for sinusoidal waveforms, $T_A \leq 90$ °C)
For T_A >90 °C, please refer to "General technical information", section 3.2.3.

Lead spacing 27.5 mm

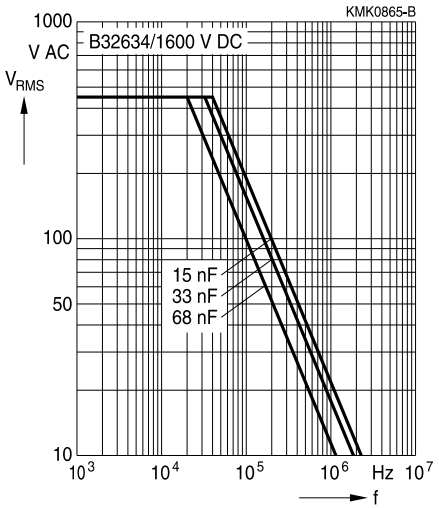
630 V DC/300 V AC



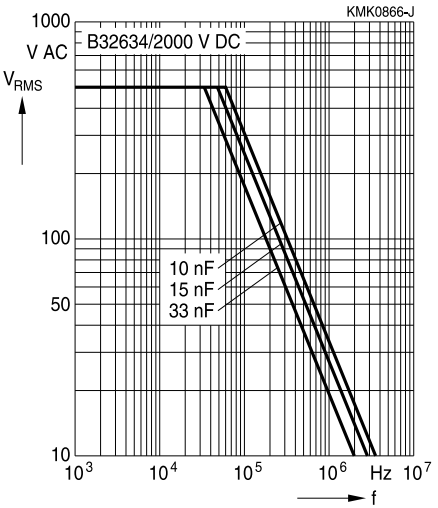
1250 V DC/450 V AC

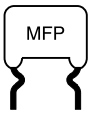


1600 V DC/450 V AC



2000 V DC/500 V AC





Mounting guidelines

1 Soldering

1.1 Solderability of leads

The solderability of terminal leads is tested to IEC 60068-2-20, test Ta, method 1.

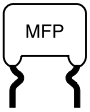
Before a solderability test is carried out, terminals are subjected to accelerated ageing (to IEC 60068-2-2, test Ba: 4 h exposure to dry heat at 155 °C). Since the ageing temperature is far higher than the upper category temperature of the capacitors, the terminal wires should be cut off from the capacitor before the ageing procedure to prevent the solderability being impaired by the products of any capacitor decomposition that might occur.

Solder bath temperature	235 ±5 °C
Soldering time	2.0 ±0.5 s
Immersion depth	2.0 +0/−0.5 mm from capacitor body or seating plane
Evaluation criteria: Visual inspection	 Wetting of wire surface by new solder ≥90%, free-flowing solder

1.2 Resistance to soldering heat

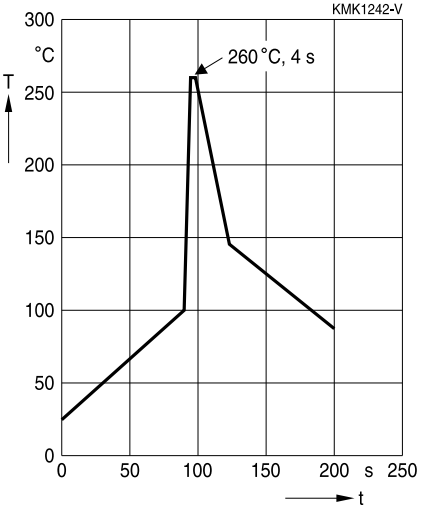
Resistance to soldering heat is tested to IEC 60068-2-20, test Tb, method 1A.
Conditions:

Series		Solder bath temperature	Soldering time
MKT	boxed (except 2.5 × 6.5 × 7.2 mm) coated uncoated (lead spacing > 10 mm)	260 ±5 °C	10 ±1 s
MFP MKP	 (lead spacing > 7.5 mm)		
MKT	boxed (case 2.5 × 6.5 × 7.2 mm)		5 ±1 s
MKP MKT	(lead spacing ≤ 7.5 mm) uncoated (lead spacing ≤ 10 mm) insulated (B32559)		< 4 s recommended soldering profile for MKT uncoated (lead spacing ≤ 10 mm) and insulated (B32559)



B32632 ... B32634

Very high pulse (wound)



Immersion depth	2.0 +0/−0.5 mm from capacitor body or seating plane
Shield	Heat-absorbing board, (1.5 ±0.5) mm thick, between capacitor body and liquid solder
Evaluation criteria:	
Visual inspection	No visible damage
$\Delta C/C_0$	2% for MKT/MKP/MFP 5% for EMI suppression capacitors
tan δ	As specified in sectional specification

1.3 General notes on soldering

Permissible heat exposure loads on film capacitors are primarily characterized by the upper category temperature T_{max}. Long exposure to temperatures above this type-related temperature limit can lead to changes in the plastic dielectric and thus change irreversibly a capacitor's electrical characteristics. For short exposures (as in practical soldering processes) the heat load (and thus the possible effects on a capacitor) will also depend on other factors like:

- Pre-heating temperature and time
- Forced cooling immediately after soldering
- Terminal characteristics:
  diameter, length, thermal resistance, special configurations (e.g. crimping)
- Height of capacitor above solder bath
- Shadowing by neighboring components
- Additional heating due to heat dissipation by neighboring components
- Use of solder-resist coatings

The overheating associated with some of these factors can usually be reduced by suitable countermeasures. For example, if a pre-heating step cannot be avoided, an additional or reinforced cooling process may possibly have to be included.

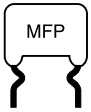
EPCOS recommends the following conditions:

- Pre-heating with a maximum temperature of 110 °C
- Temperature inside the capacitor should not exceed the following limits:
  - MKP/MFP 110 °C
  - MKT 160 °C
- When SMD components are used together with leaded ones, the leaded film capacitors should not pass into the SMD adhesive curing oven. The leaded components should be assembled after the SMD curing step.
- Leaded film capacitors are not suitable for reflow soldering.

Uncoated capacitors

For uncoated MKT capacitors with lead spacings ≤10 mm (B32560/B32561) the following measures are recommended:

- pre-heating to not more than 110 °C in the preheater phase
- rapid cooling after soldering



B32632 ... B32634

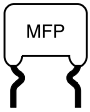
Very high pulse (wound)

Cautions and warnings

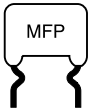
- Do not exceed the upper category temperature (UCT).
- Do not apply any mechanical stress to the capacitor terminals.
- Avoid any compressive, tensile or flexural stress.
- Do not move the capacitor after it has been soldered to the PC board.
- Do not pick up the PC board by the soldered capacitor.
- Do not place the capacitor on a PC board whose PTH hole spacing differs from the specified lead spacing.
- Do not exceed the specified time or temperature limits during soldering.
- Avoid external energy inputs, such as fire or electricity.
- Avoid overload of the capacitors.

The table below summarizes the safety instructions that must always be observed. A detailed description can be found in the relevant sections of the chapters "General technical information" and "Mounting guidelines".

Topic	Safety information	Reference chapter "General technical information"
Storage conditions	Make sure that capacitors are stored within the specified range of time, temperature and humidity conditions.	4.5 "Storage conditions"
Flammability	Avoid external energy, such as fire or electricity (passive flammability), avoid overload of the capacitors (active flammability) and consider the flammability of materials.	5.3 "Flammability"
Resistance to vibration	Do not exceed the tested ability to withstand vibration. The capacitors are tested to IEC 60068-2-6. EPCOS offers film capacitors specially designed for operation under more severe vibration regimes such as those found in automotive applications. Consult our catalog "Film Capacitors for Automotive Electronics".	5.2 "Resistance to vibration"



Topic	Safety information	Reference chapter "Mounting guidelines"
Soldering	Do not exceed the specified time or temperature limits during soldering.	1 "Soldering"
Cleaning	Use only suitable solvents for cleaning capacitors.	2 "Cleaning"
Embedding of capacitors in finished assemblies	When embedding finished circuit assemblies in plastic resins, chemical and thermal influences must be taken into account. Caution: Consult us first, if you also wish to embed other uncoated component types!	3 "Embedding of capacitors in finished assemblies"



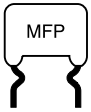
B32632 ... B32634

Very high pulse (wound)

Symbols and terms

Symbol	English	German
α	Heat transfer coefficient	Wärmeübergangszahl
α_C	Temperature coefficient of capacitance	Temperaturkoeffizient der Kapazität
A	Capacitor surface area	Kondensatoroberfläche
β_C	Humidity coefficient of capacitance	Feuchtekoeffizient der Kapazität
C	Capacitance	Kapazität
C_R	Rated capacitance	Nennkapazität
ΔC	Absolute capacitance change	Absolute Kapazitätsänderung
$\Delta C/C$	Relative capacitance change (relative deviation of actual value)	Relative Kapazitätsänderung (relative Abweichung vom Ist-Wert)
$\Delta C/C_R$	Capacitance tolerance (relative deviation from rated capacitance)	Kapazitätstoleranz (relative Abweichung vom Nennwert)
dt	Time differential	Differentielle Zeit
Δt	Time interval	Zeitintervall
ΔT	Absolute temperature change (self-heating)	Absolute Temperaturänderung (Selbsterwärmung)
$\Delta \tan \delta$	Absolute change of dissipation factor	Absolute Änderung des Verlustfaktors
ΔV	Absolute voltage change	Absolute Spannungsänderung
dV/dt	Time differential of voltage function (rate of voltage rise)	Differentielle Spannungsänderung (Spannungsflankensteilheit)
$\Delta V/\Delta t$	Voltage change per time interval	Spannungsänderung pro Zeitintervall
E	Activation energy for diffusion	Aktivierungsenergie zur Diffusion
ESL	Self-inductance	Eigeninduktivität
ESR	Equivalent series resistance	Ersatz-Serienwiderstand
f	Frequency	Frequenz
f_1	Frequency limit for reducing permissible AC voltage due to thermal limits	Grenzfrequenz für thermisch bedingte Reduzierung der zulässigen Wechselspannung
f_2	Frequency limit for reducing permissible AC voltage due to current limit	Grenzfrequenz für strombedingte Reduzierung der zulässigen Wechselspannung
f_r	Resonant frequency	Resonanzfrequenz
F_D	Thermal acceleration factor for diffusion	Therm. Beschleunigungsfaktor zur Diffusion
F_T	Derating factor	Deratingfaktor
i	Current (peak)	Stromspitze
I_C	Category current (max. continuous current)	Kategoriestrom (max. Dauerstrom)

Symbol	English	German
I_{RMS}	(Sinusoidal) alternating current, root-mean-square value	(Sinusförmiger) Wechselstrom
i_z	Capacitance drift	Inkonstanz der Kapazität
k_0	Pulse characteristic	Impulskennwert
L_S	Series inductance	Serieninduktivität
λ	Failure rate	Ausfallrate
λ_0	Constant failure rate during useful service life	Konstante Ausfallrate in der Nutzungsphase
λ_{test}	Failure rate, determined by tests	Experimentell ermittelte Ausfallrate
P_{diss}	Dissipated power	Abgegebene Verlustleistung
P_{gen}	Generated power	Erzeugte Verlustleistung
Q	Heat energy	Wärmeenergie
ρ	Density of water vapor in air	Dichte von Wasserdampf in Luft
R	Universal molar constant for gases	Allg. Molarkonstante für Gas
R	Ohmic resistance of discharge circuit	Ohmscher Widerstand des Entladekreises
R_i	Internal resistance	Innenwiderstand
R_{ins}	Insulation resistance	Isolationswiderstand
R_P	Parallel resistance	Parallelwiderstand
R_S	Series resistance	Serienwiderstand
S	severity (humidity test)	Schärfegrad (Feuchtetest)
t	Time	Zeit
T	Temperature	Temperatur
τ	Time constant	Zeitkonstante
tan δ	Dissipation factor	Verlustfaktor
tan δ_D	Dielectric component of dissipation factor	Dielektrischer Anteil des Verlustfaktors
tan δ_P	Parallel component of dissipation factor	Parallelanteil des Verlfustfaktors
tan δ_S	Series component of dissipation factor	Serienanteil des Verlustfaktors
T_A	Ambient temperature	Umgebungstemperatur
T_{max}	Upper category temperature	Obere Kategorietemperatur
T_{min}	Lower category temperature	Untere Kategorietemperatur
t_{OL}	Operating life at operating temperature and voltage	Betriebszeit bei Betriebstemperatur und -spannung
T_{op}	Operating temperature	Beriebstemperatur
T_R	Rated temperature	Nenntemperatur
T_{ref}	Reference temperature	Referenztemperatur
t_{SL}	Reference service life	Referenz-Lebensdauer
V_{AC}	AC voltage	Wechselspannung



B32632 ... B32634

Very high pulse (wound)

Symbol	English	German
V_C	Category voltage	Kategoriespannung
$V_{C,RMS}$	Category AC voltage	(Sinusförmige) Kategorie-Wechselspannung
V_{CD}	Corona-discharge onset voltage	Teilentlade-Einsatzspannung
V_{ch}	Charging voltage	Ladespannung
V_{DC}	DC voltage	Gleichspannung
V_{FB}	Fly-back capacitor voltage	Spannung (Flyback)
V_i	Input voltage	Eingangsspannung
V_o	Output voltage	Ausgangssspannung
V_{op}	Operating voltage	Betriebsspannung
V_p	Peak pulse voltage	Impuls-Spitzenspannung
V_{pp}	Peak-to-peak voltage Impedance	Spannungshub
V_R	Rated voltage	Nennspannung
$\hat{v}_R$	Amplitude of rated AC voltage	Amplitude der Nenn-Wechselspannung
V_{RMS}	(Sinusoidal) alternating voltage, root-mean-square value	(Sinusförmige) Wechselspannung
V_{SC}	S-correction voltage	Spannung bei Anwendung "S-correction"
V_{sn}	Snubber capacitor voltage	Spannung bei Anwendung "Beschaltung"
Z	Impedance	Scheinwiderstand
e	Lead spacing	Rastermaß

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1. Some parts of this publication contain **statements about the suitability of our products for certain areas of application**. These statements are based on our knowledge of typical requirements that are often placed on our products in the areas of application concerned. We nevertheless expressly point out **that such statements cannot be regarded as binding statements about the suitability of our products for a particular customer application**. As a rule, EPCOS is either unfamiliar with individual customer applications or less familiar with them than the customers themselves. For these reasons, it is always ultimately incumbent on the customer to check and decide whether an EPCOS product with the properties described in the product specification is suitable for use in a particular customer application.
2. We also point out that **in individual cases, a malfunction of electronic components or failure before the end of their usual service life cannot be completely ruled out in the current state of the art, even if they are operated as specified**. In customer applications requiring a very high level of operational safety and especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health (e.g. in accident prevention or lifesaving systems), it must therefore be ensured by means of suitable design of the customer application or other action taken by the customer (e.g. installation of protective circuitry or redundancy) that no injury or damage is sustained by third parties in the event of malfunction or failure of an electronic component.
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