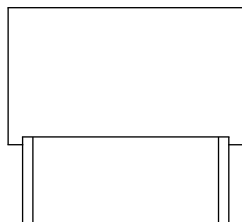


Metallized Polyester Film Capacitors MKT Radial Type



FEATURES

- 10.0 mm to 27.5 mm lead pitch
- Self-healing properties
- Flame retardant case
- Material categorization:
For definitions of compliance please see
www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

Blocking, bypassing, filtering, timing, coupling and decoupling circuits, interference suppression in low voltage applications.

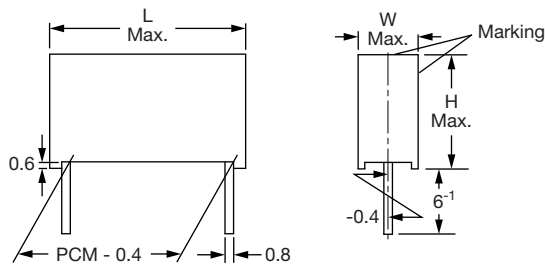
QUICK REFERENCE DATA

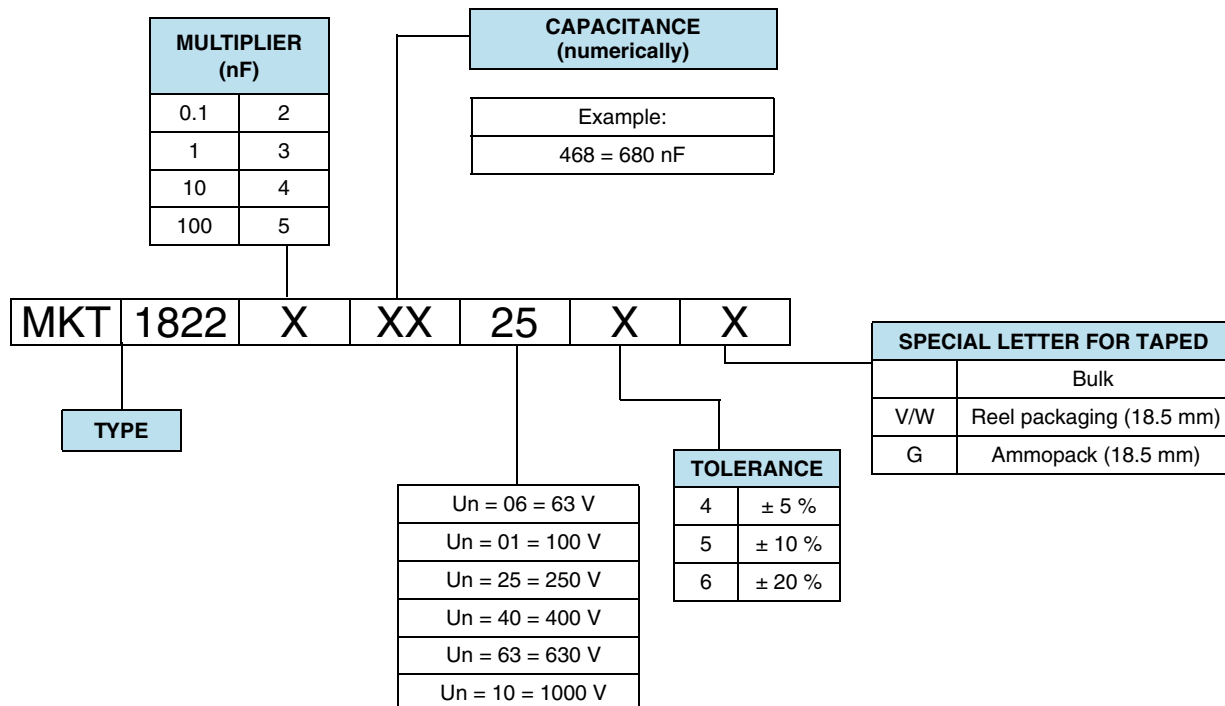
Capacitance range (E12 series)	1000 pF to 15 μ F (preferred values according to E6)
Capacitance tolerance	$\pm 20\%$ (M), $\pm 10\%$ (K), $\pm 5\%$ (J) (on request)
Climatic testing class according to IEC 60068	55/100/56
Reference standards	IEC 60384-2
Dielectric	Polyester film
Electrodes	Vacuum deposited aluminum
Construction	Extended metallized film
Encapsulation	Flame retardant plastic case UL-class 94 V-0
Leads	Tinned wire
Marking	Manufacturer's logo; type; C-value; rated voltage; tolerance; date of manufacture
Temperature range	-55 °C to +100 °C
Rated DC voltage	63 V _{DC} , 100 V _{DC} , 250 V _{DC} , 400 V _{DC} , 630 V _{DC} , 1000 V _{DC}
Permissible AC voltages (RMS) up to 60 Hz	40 V _{AC} , 63 V _{AC} , 160 V _{AC} , 200 V _{AC} , 220 V _{AC}
Capacitance drift	Up to +40 °C, $\pm 1.5\%$ for a period of two years
Derating for DC and AC category voltage U _C	At +85 °C: U _C = 1.0 U _R At +100 °C: U _C = 0.8 U _R
Self inductance	~ 6 nH measured with 2 mm long leads
Pull test on leads	≥ 30 N in direction of leads according to IEC 60068-2-21

Note

- For more detailed data and test requirements, contact dc-film@vishay.com

DIMENSIONS in millimeters



COMPOSITION OF CATALOG NUMBER

Note

- For detailed tape specifications refer to packaging information www.vishay.com/docs?28139 or “Recommended Packaging” table

SPECIFIC REFERENCE DATA						
DESCRIPTION				MAX. VALUE		
Tangent of loss angle:				at 1 kHz	at 10 kHz	at 100 kHz
$C \leq 0.1 \mu\text{F}$				8×10^{-3}	15×10^{-3}	25×10^{-3}
$0.1 \mu\text{F} < C \leq 1.0 \mu\text{F}$				8×10^{-3}	15×10^{-3}	-
$C > 1.0 \mu\text{F}$				10×10^{-3}	-	-
PCM (mm)	MAXIMUM PULSE RISE TIME (dV/dt) [V/μs]					
	63 V _{DC}	100 V _{DC}	250 V _{DC}	400 V _{DC}	630 V _{DC}	1000 V _{DC}
10	11	13	22	37	60	130
15	7	8	13	21	33	65
22.5	4	5	8	13	19	34
27.5	3	4	6	10	14	25
If the maximum pulse voltage is less than the rated voltage higher dV/dt values can be permitted.						
R between leads, for $C \leq 0.33 \mu\text{F}$ and $U_R \leq 100 \text{ V}$					> 15 000 MΩ	
R between leads, for $C \leq 0.33 \mu\text{F}$ and $U_R > 100 \text{ V}$					> 30 000 MΩ	
RC between leads, for $C > 0.33 \mu\text{F}$ and $U_R \leq 100 \text{ V}$					> 5000 s	
RC between leads, for $C > 0.33 \mu\text{F}$ and $U_R > 100 \text{ V}$					> 10 000 s	
R between leads and case, 100 V; (foil method)					> 30 000 MΩ	
Withstanding (DC) voltage (cut off current 10 mA); rise time < 1000 V/s					$1.6 \times U_{\text{RDC}}$, 1 min	
Withstanding (DC) voltage between leads and case					$2 \times U_{\text{RDC}}$, 1 min	
Maximum application temperature					100 °C	



ELECTRICAL DATA						
U _{RDC} (V)	CAP. (μF)	CAPACITANCE CODE	VOLTAGE CODE	V _{AC}	DIMENSIONS W x H x L	PCM
63	0.22	-422	06	40	4.0 x 9.0 x 13.0	10
	0.33	-433			4.0 x 9.0 x 13.0	10
	0.47	-447			5.5 x 10.5 x 13.0	10
	0.68	-468			5.5 x 10.5 x 18.0	15
	1.0	-510			5.5 x 10.5 x 18.0	15
	1.5	-515			6.5 x 12.5 x 18.0	15
	2.2	-522			7.5 x 13.5 x 18.0	15
	3.3	-533			7.5 x 15.5 x 26.5	22.5
	4.7	-547			8.5 x 16.5 x 26.5	22.5
	6.8	-568			10.5 x 18.5 x 26.5	22.5
	10.0	-610			11.5 x 20.5 x 31.5	27.5
	15.0	-615			13.5 x 23.5 x 31.5	27.5
100	0.068	-368	01	63	4.0 x 9.0 x 13.0	10
	0.10	-410			4.0 x 9.0 x 13.0	10
	0.15	-415			4.0 x 9.0 x 13.0	10
	0.22	-422			4.5 x 9.5 x 13.0	10
	0.33	-433			5.5 x 10.5 x 18.0	15
	0.47	-447			5.5 x 10.5 x 18.0	15
	0.68	-468			6.5 x 12.5 x 18.0	15
	1.0	-510			7.5 x 13.5 x 18.0	15
	1.5	-515			7.5 x 15.5 x 26.5	22.5
	2.2	-522			8.5 x 16.5 x 26.5	22.5
	3.3	-533			10.5 x 18.5 x 26.5	22.5
	4.7	-547			11.5 x 20.5 x 31.5	27.5
	6.8	-568			13.5 x 23.5 x 31.5	27.5
	10.0	-610			15.0 x 24.5 x 31.5	27.5
	15.0	-615			16.5 x 29.5 x 31.5	27.5
250	0.033	-333	25	160	4.0 x 9.0 x 13.0	10
	0.047	-347			4.0 x 9.0 x 13.0	10
	0.068	-368			4.5 x 9.5 x 13.0	10
	0.10	-410			5.5 x 10.5 x 18.0	15
	0.15	-415			5.5 x 10.5 x 18.0	15
	0.22	-422			5.5 x 10.5 x 18.0	15
	0.33	-433			6.5 x 12.5 x 18.0	15
	0.47	-447			6.5 x 14.5 x 26.5	22.5
	0.68	-468			7.5 x 15.5 x 26.5	22.5
	1.0	-510			8.5 x 16.5 x 26.5	22.5
	1.5	-515			9.0 x 18.5 x 31.5	27.5
	2.2	-522			11.5 x 20.5 x 31.5	27.5
	3.3	-533			13.5 x 23.5 x 31.5	27.5
400	0.0010	-210	40	200	4.0 x 9.0 x 13.0	10
	0.0015	-215			4.0 x 9.0 x 13.0	10
	0.0022	-222			4.0 x 9.0 x 13.0	10
	0.0033	-233			4.0 x 9.0 x 13.0	10
	0.0047	-247			4.0 x 9.0 x 13.0	10
	0.0068	-268			4.0 x 9.0 x 13.0	10
	0.010	-310			4.0 x 9.0 x 13.0	10
	0.015	-315			4.0 x 9.0 x 13.0	10
	0.022	-322			4.0 x 9.0 x 13.0	10
	0.033	-333			4.0 x 9.0 x 13.0	10
	0.047	-347			5.5 x 10.5 x 18.0	15
	0.068	-368			5.5 x 10.5 x 18.0	15
	0.10	-410			5.5 x 10.5 x 18.0	15
	0.15	-415			6.5 x 12.5 x 18.0	15
	0.22	-422			7.5 x 15.5 x 26.5	22.5
	0.33	-433			8.5 x 16.5 x 26.5	22.5
	0.47	-447			10.5 x 18.5 x 26.5	22.5
	0.68	-468			11.5 x 20.5 x 31.5	27.5
	1.0	-510			11.5 x 20.5 x 31.5	27.5
	1.5	-515			13.5 x 23.5 x 31.5	27.5



ELECTRICAL DATA						
U _{RDC} (V)	CAP. (μF)	CAPACITANCE CODE	VOLTAGE CODE	V _{AC}	DIMENSIONS W x H x L	PCM
630	0.0010	-210	63 ⁽¹⁾	220	4.0 x 9.0 x 13.0	10
	0.0015	-215			4.0 x 9.0 x 13.0	10
	0.0022	-222			4.0 x 9.0 x 13.0	10
	0.0033	-233			4.0 x 9.0 x 13.0	10
	0.0047	-247			4.0 x 9.0 x 13.0	10
	0.0068	-268			4.0 x 9.0 x 13.0	10
	0.010	-310			4.0 x 9.0 x 13.0	10
	0.015	-315			5.5 x 10.5 x 13.0	10
	0.022	-322			6.5 x 11.5 x 13.0	10
	0.033	-333			5.5 x 10.5 x 18.0	15
	0.047	-347			6.5 x 12.5 x 18.0	15
	0.068	-368			7.5 x 13.5 x 18.0	15
	0.10	-410			6.5 x 14.5 x 26.5	22.5
	0.15	-415			7.5 x 15.5 x 26.5	22.5
	0.22	-422			8.5 x 16.5 x 26.5	22.5
	0.33	-433			11.5 x 20.5 x 31.5	27.5
	0.47	-447			11.5 x 20.5 x 31.5	27.5
	0.68	-468			13.5 x 23.5 x 31.5	27.5
	1.0	-510			15.0 x 24.5 x 31.5	27.5
1000	0.0010	-210	10 ⁽¹⁾	220	4.0 x 9.0 x 13.0	10
	0.0015	-215			4.0 x 9.0 x 13.0	10
	0.0022	-222			4.0 x 9.0 x 13.0	10
	0.0033	-233			4.0 x 9.0 x 13.0	10
	0.0047	-247			5.5 x 10.5 x 13.0	10
	0.0068	-268			6.5 x 11.5 x 13.0	10
	0.010	-310			5.5 x 10.5 x 18.0	15
	0.015	-315			6.5 x 12.5 x 18.0	15
	0.022	-322			7.5 x 13.5 x 18.0	15
	0.033	-333			6.5 x 14.5 x 26.5	22.5
	0.047	-347			7.5 x 15.5 x 26.5	22.5
	0.068	-368			8.5 x 16.5 x 26.5	22.5
	0.10	-410			10.5 x 18.5 x 26.5	22.5
	0.15	-415			11.5 x 20.5 x 31.5	27.5
	0.22	-422			13.5 x 23.5 x 31.5	27.5
	0.33	-433			16.5 x 29.5 x 31.5	27.5
	0.47	-447			20.0 x 35.0 x 31.5	27.5

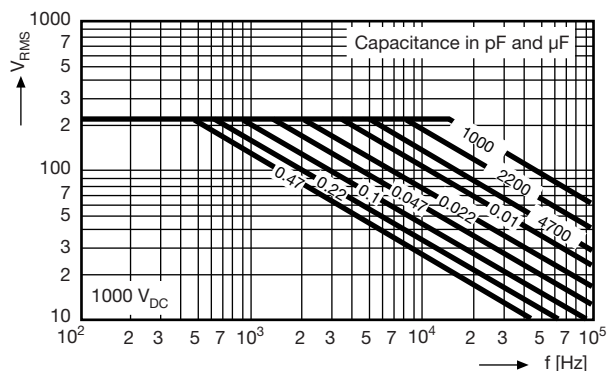
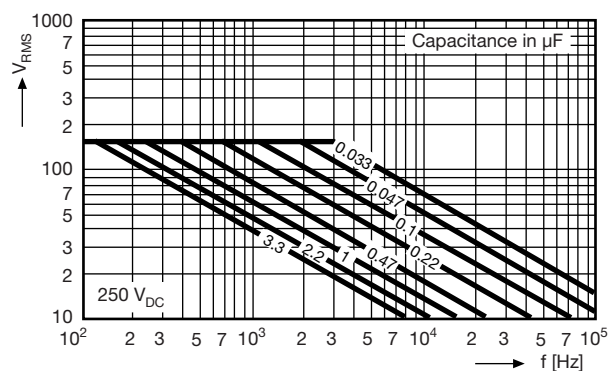
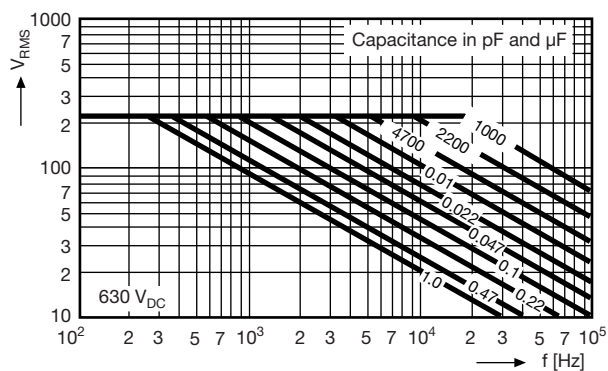
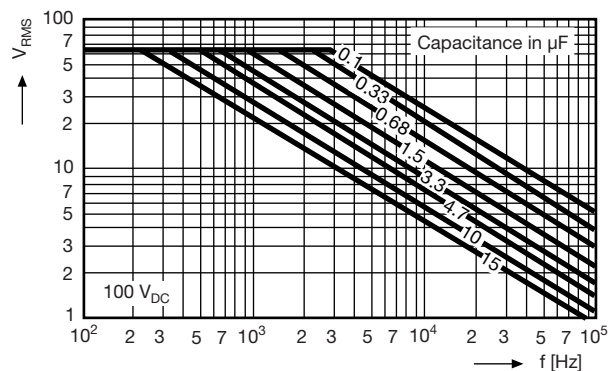
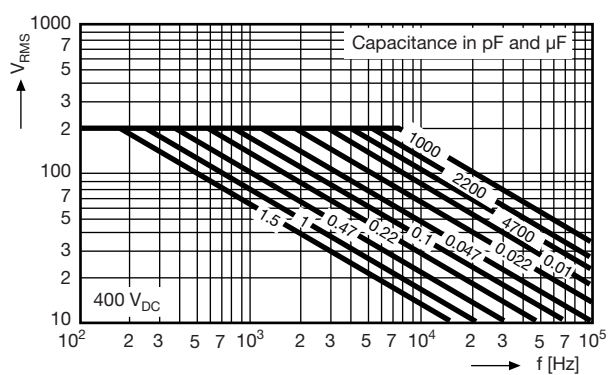
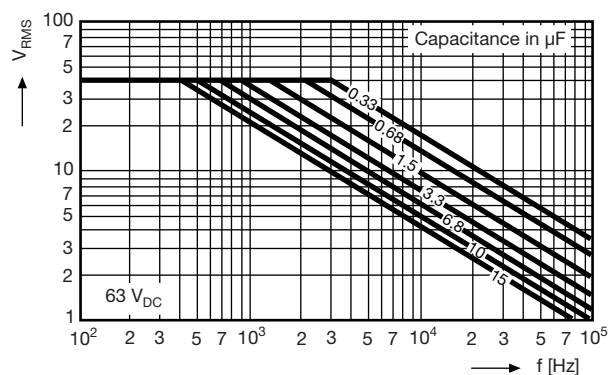
Note⁽¹⁾ Not suitable for mains applications.

RECOMMENDED PACKAGING							
LETTER CODE	TYPE OF PACKAGING	HEIGHT (H) (mm)	REEL DIAMETER (mm)	ORDERING CODE EXAMPLES	PCM 10	PCM 15	PCM 22.5 TO 27.5
D	Ammo	16.5	S ⁽¹⁾	MKT1822-422-065-D	X	X	-
G	Ammo	18.5	S ⁽¹⁾	MKT1822-422-065-G	X	X	-
F	Reel	16.5	350	MKT1822-422-065-F	X	X	-
W	Reel	18.5	350	MKT1822-422-065-W	X	X	-
V	Reel	18.5	500	MKT1822-510-255-V	-	X	X
G	Ammo	18.5	L ⁽²⁾	MKT1822-510-255-G	-	-	X
-	Bulk	-	-	MKT1822-510-255	X	X	X
-	Bulk	-	-	MKT1822-522-255	X	-	X

Notes⁽¹⁾ S = Box size 55 mm x 210 mm x 340 mm (W x H x L)⁽²⁾ L = Box size 60 mm x 360 mm x 510 mm (W x H x L)



PERMISSIBLE AC VOLTAGE VS. FREQUENCY





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- Поставка сложных, дефицитных, либо снятых с производства позиций;
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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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