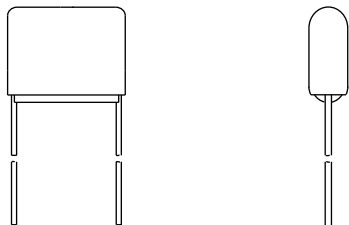


Metallized Polyester Film Capacitors MKT Radial Epoxy Partly Lacquered Type



FEATURES

- Partly lacquered product
- Pitch 10 mm to 22.5 mm available loose in box
- Material categorization:
For definitions of compliance please see
www.vishay.com/doc?99912


RoHS
COMPLIANT

APPLICATIONS

- Blocking, coupling and decoupling
- Bypass and energy reservoir

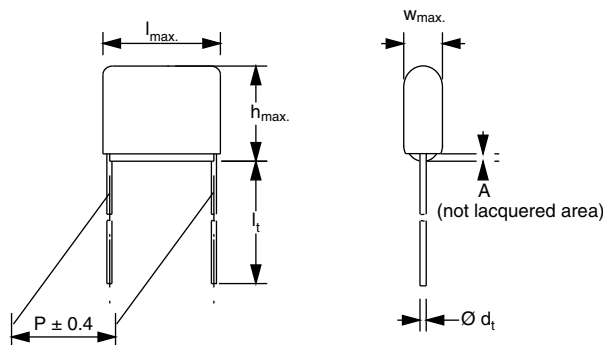
QUICK REFERENCE DATA

Capacitance range (E12 series)	0.01 μ F to 10 μ F
Capacitance tolerance	$\pm 10\%$; $\pm 5\%$
Rated DC voltage	250 V; 400 V; 630 V
Rated AC voltage	63 V; 100 V; 160 V
Rated temperature	85 $^{\circ}$ C
Climatic category	55/105/56
Maximum application temperature	105 $^{\circ}$ C
Leads	Tinned wire
Reference specifications	IEC 60384-2
Dielectric	Polyester film
Electrodes	Vacuum deposited aluminum
Construction	Wound mono construction
Coating	Flame retardant epoxy material (UL-class 94 V-0)
Performance grade	Grade 1 (long life)
Marking	C-value; rated voltage; tolerance

Note

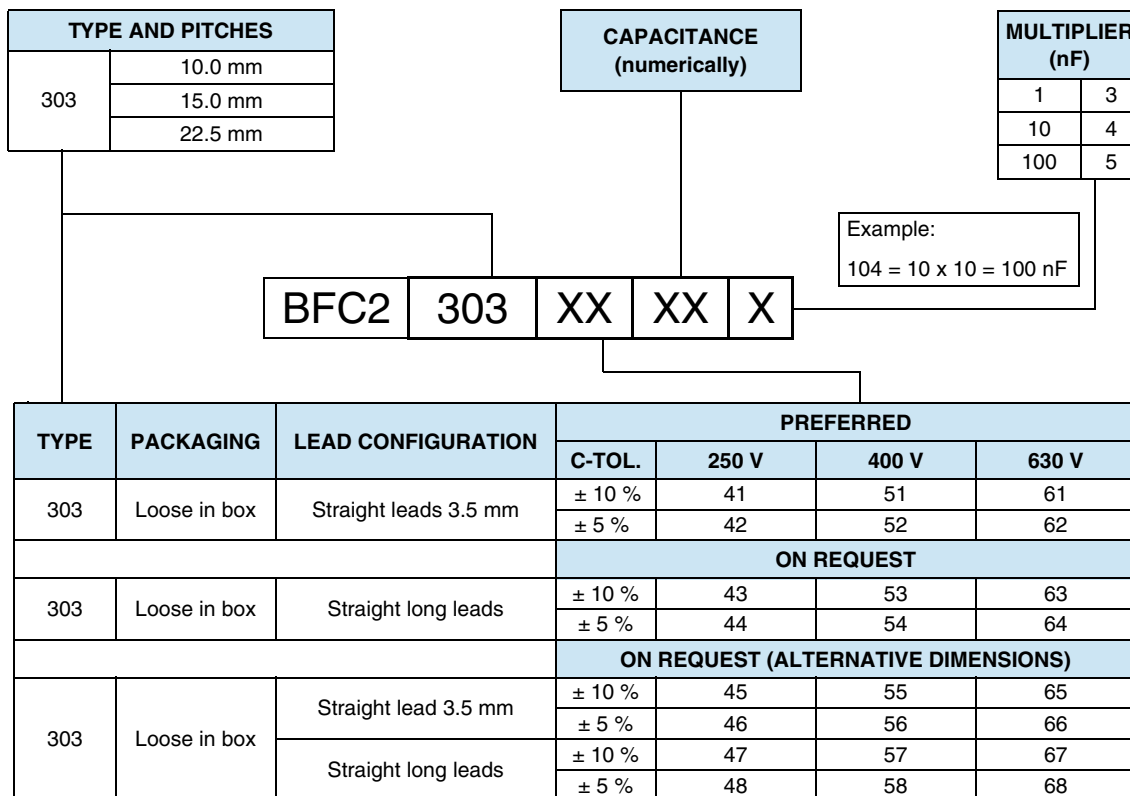
- For more detailed data and test requirements contact: dc-film@vishay.com

DIMENSIONS in millimeters





COMPOSITION OF CATALOG NUMBER



SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE		
Tangent of loss angle:	at 1 kHz	at 10 kHz	at 100 kHz
$C \leq 0.47 \mu\text{F}$	$\leq 75 \times 10^{-4}$	$\leq 120 \times 10^{-4}$	$\leq 225 \times 10^{-4}$
$C > 0.47 \mu\text{F}$	$\leq 75 \times 10^{-4}$	$\leq 120 \times 10^{-4}$	-
Rated voltage pulse slope $(dU/dt)_R$:	at 250 V _{DC}	at 400 V _{DC}	at 630 V _{DC}
$I_{\text{max.}} = 12.5 \text{ mm}$	18 V/ μs	45 V/ μs	137 V/ μs
$I_{\text{max.}} = 17.5 \text{ mm}$	6 V/ μs	15 V/ μs	44 V/ μs
$I_{\text{max.}} = 26.0 \text{ mm}$	2 V/ μs	6 V/ μs	17 V/ μs
R between leads, for $C \leq 0.33 \mu\text{F}$ at 100 V; 1 min	> 30 000 M Ω		
RC between leads, for $C > 0.33 \mu\text{F}$ at 100 V; 1 min	> 10 000 s		
R between interconnecting leads and casing; 100 V; 1 min	> 30 000 M Ω		
Withstanding (DC) voltage (cut off current 10 mA) ⁽¹⁾ ; rise time 1000 V/s	400 V; 1 min	640 V; 1 min	1008 V; 1 min
Withstanding (DC) voltage between leads and case	500 V; 1 min	800 V; 1 min	1260 V; 1 min

Note

⁽¹⁾ See "Voltage Proof Test for Metallized Film Capacitors": www.vishay.com/doc?28169

**ELECTRICAL DATA AND ORDERING INFORMATION ($U_{RAC} = 63 V$)**

U _{RDC} (V)	CAP. ⁽²⁾ (μF)	DIMENSIONS W _{max} x H _{max} x L _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 303 AND PACKAGING					
				LOOSE IN BOX					
				l _t = 3.5 mm ± 0.5 mm			LONG LEADS ⁽¹⁾		
				C-TOL. = ± 10 %	C-TOL. = ± 5 %	SPQ	C-TOL. = ± 10 %	C-TOL. = ± 5 %	SPQ
				LAST 5 DIGITS OF CATALOG NUMBER	LAST 5 DIGITS OF CATALOG NUMBER		LAST 5 DIGITS OF CATALOG NUMBER	LAST 5 DIGITS OF CATALOG NUMBER	
250	PITCH = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; A ≤ 3.5 mm								
	0.10	4.7 x 9.4 x 12.5	0.5	41104	42104	2000	43104	44104	1000
	0.12	4.3 x 9.1 x 12.5	0.4	41124	42124	2000	43124	44124	1250
	0.15	4.8 x 9.5 x 12.5	0.5	41154	42154	2000	43154	44154	1000
	0.18	5.2 x 9.9 x 12.5	0.6	41184	42184	2000	43184	44184	1000
	0.22	4.5 x 9.3 x 12.5	0.5	41224	42224	2000	43224	44224	1000
	0.27	5.0 x 9.7 x 12.5	0.5	41274	42274	2000	43274	44274	1000
	0.33	4.6 x 9.3 x 12.5	0.5	41334	42334	2000	43334	44334	1000
	0.39	4.9 x 9.6 x 12.5	0.5	41394	42394	2000	43394	44394	1000
	0.47	5.4 x 10.1 x 12.5	0.6	41474	42474	2000	43474	44474	900
	0.56	5.8 x 10.5 x 12.5	0.7	41564	42564	2000	43564	44564	900
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; A ≤ 4.0 mm								
	0.39	5.8 x 10.5 x 17.5	0.9	45394	46394	1500	47394	48394	900
	0.47	6.4 x 11.1 x 17.5	1.1	45474	46474	1500	47474	48474	800
	0.56	5.5 x 10.2 x 17.5	0.9	45564	46564	2000	47564	48564	900
	0.68	6.0 x 10.7 x 17.5	1.0	41684	42684	1500	43684	44684	800
	0.82	5.4 x 10.2 x 17.5	0.8	41824	42824	2000	43824	44824	1000
	1.0	6.0 x 10.7 x 17.5	1.0	41105	42105	1500	43105	44105	800
	1.2	6.5 x 11.2 x 17.5	1.1	41125	42125	1500	43125	44125	750
	1.5	7.3 x 12.0 x 17.5	1.3	41155	42155	1250	43155	44155	650
	1.8	7.9 x 12.7 x 17.5	1.5	41185	42185	1250	43185	44185	600
	PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; A ≤ 4.0 mm								
	1.8	8.7 x 16.5 x 26.0	3.3	45185	46185	800	47185	48185	500
	2.2	9.7 x 17.5 x 26.0	3.8	41225	42225	700	43225	44225	500
	2.7	8.3 x 16.1 x 26.0	3.0	41275	42275	900	43275	44275	600
	3.3	9.2 x 17.1 x 26.0	3.6	41335	42335	750	43335	44335	500
	3.9	8.2 x 16.0 x 26.0	3.0	41395	42395	900	43395	44395	600
	4.7	9.0 x 16.9 x 26.0	3.4	41475	42475	750	43475	44475	500
	5.6	9.9 x 17.7 x 26.0	4.0	41565	42565	600	43565	44565	500

Notes⁽¹⁾ Length of long leads:a) $l_t = 19.0 \text{ mm} \pm 4.0 \text{ mm}$ for pitch = 10 mm and 15.0 mm.b) $l_t = 25.0 \text{ mm} \pm 4.0 \text{ mm}$ for pitch = 22.5 mm.⁽²⁾ Values in *italic* indicate alternative dimensions.

ELECTRICAL DATA AND ORDERING INFORMATION (U _{RAC} = 100 V)									
U _{RDC} (V)	CAP. ⁽²⁾ (μF)	DIMENSIONS W _{max} x H _{max} x L _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 303 AND PACKAGING					
				LOOSE IN BOX					
				l _t = 3.5 mm ± 0.5 mm			LONG LEADS ⁽¹⁾		
				C-TOL. = ± 10 %	C-TOL. = ± 5 %	SPQ	C-TOL. = ± 10 %	C-TOL. = ± 5 %	SPQ
				LAST 5 DIGITS OF CATALOG NUMBER	LAST 5 DIGITS OF CATALOG NUMBER		LAST 5 DIGITS OF CATALOG NUMBER	LAST 5 DIGITS OF CATALOG NUMBER	
400	PITCH = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; A ≤ 3.5 mm								
	0.10	4.7 x 9.4 x 12.5	0.5	51104	52104	2000	53104	54104	1000
	0.12	4.3 x 9.1 x 12.5	0.4	51124	52124	2000	53124	54124	1250
	0.15	4.8 x 9.5 x 12.5	0.5	51154	52154	2000	53154	54154	1000
	0.18	5.2 x 9.9 x 12.5	0.6	51184	52184	2000	53184	54184	1000
	0.22	5.7 x 10.4 x 12.5	0.6	51224	52224	2000	53224	54224	900
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; A ≤ 4.0 mm								
	0.12	5.7 x 10.4 x 17.5	1.1	55124	56124	2000	57124	58124	900
	0.15	5.4 x 10.1 x 17.5	0.8	55154	56154	2000	57154	58154	1000
	0.18	5.9 x 10.6 x 17.5	1.0	55184	56184	1500	57184	58184	800
	0.22	5.3 x 10.0 x 17.5	0.8	55224	56224	2000	57224	58224	1000
	0.27	5.8 x 10.5 x 17.5	0.9	51274	52274	1500	53274	54274	900
	0.33	5.4 x 10.1 x 17.5	0.8	51334	52334	2000	53334	54334	1000
	0.39	5.8 x 10.5 x 17.5	0.9	51394	52394	1500	53394	54394	900
	0.47	6.4 x 11.1 x 17.5	1.1	51474	52474	1500	53474	54474	800
	0.56	6.9 x 11.7 x 17.5	1.2	51564	52564	1500	53564	54564	700
	0.68	7.6 x 12.3 x 17.5	1.4	51684	52684	1250	53684	54684	600
	0.82	8.4 x 13.1 x 17.5	1.7	51824	52824	1000	53824	54824	500
	PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; A ≤ 4.0 mm								
	0.56	9.9 x 17.7 x 26.0	4.0	55564	56564	600	57564	58564	500
	0.68	7.9 x 15.8 x 26.0	2.8	55684	56684	900	57684	58684	600
	0.82	8.7 x 16.6 x 26.0	3.3	55824	56824	800	57824	58824	500
	1.0	7.7 x 15.5 x 26.0	2.7	51105	52105	900	53105	54105	600
	1.2	8.4 x 16.3 x 26.0	3.1	51125	52125	800	53125	54125	600
	1.5	7.9 x 15.8 x 26.0	2.8	51155	52155	900	53155	54155	600
	1.8	8.7 x 16.6 x 26.0	3.3	51185	52185	800	53185	54185	500
	2.2	9.7 x 17.5 x 26.0	3.8	51225	52225	700	53225	54225	500

Notes

- ⁽¹⁾ Length of long leads:
a) $l_t = 19.0\text{ mm} \pm 4.0\text{ mm}$ for pitch = 10 mm and 15.0 mm.
b) $l_t = 25.0\text{ mm} \pm 4.0\text{ mm}$ for pitch = 22.5 mm.
⁽²⁾ Values in *italic* indicate alternative dimensions.

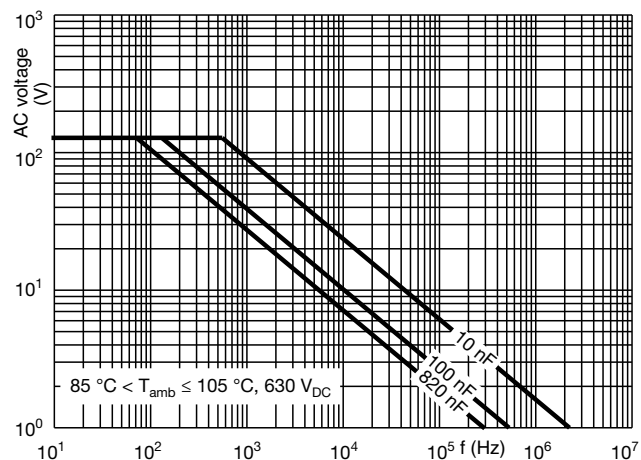
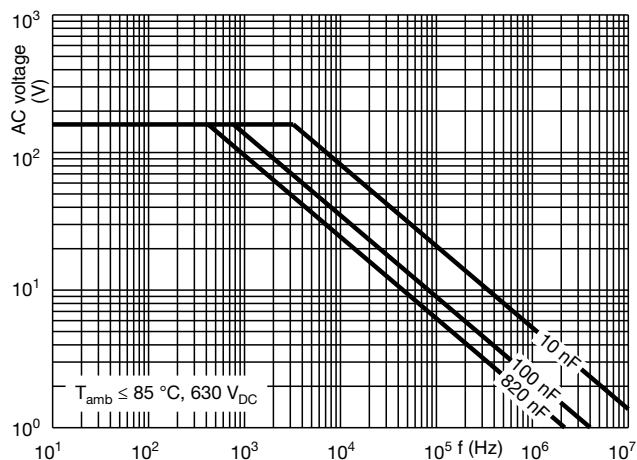
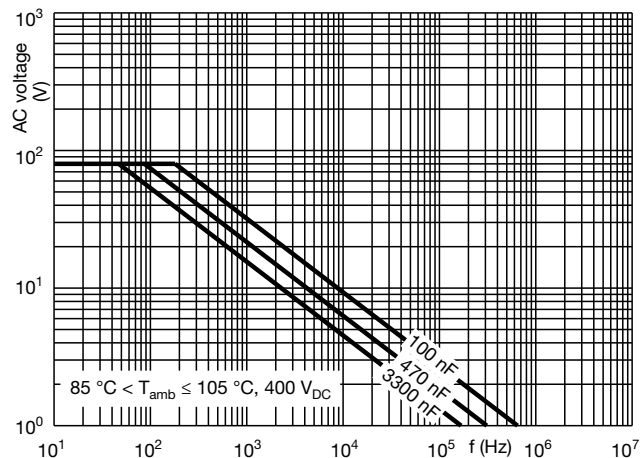
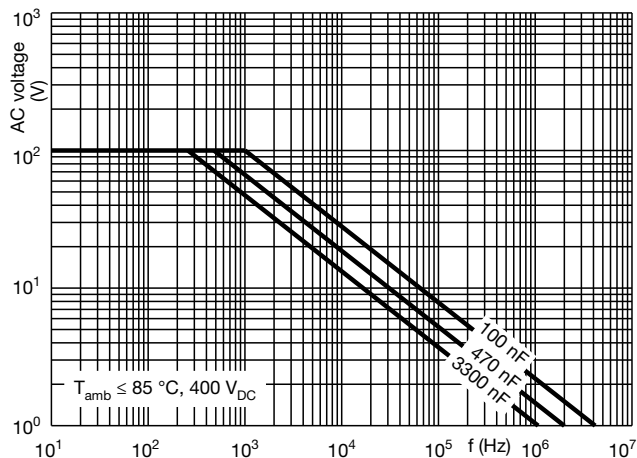
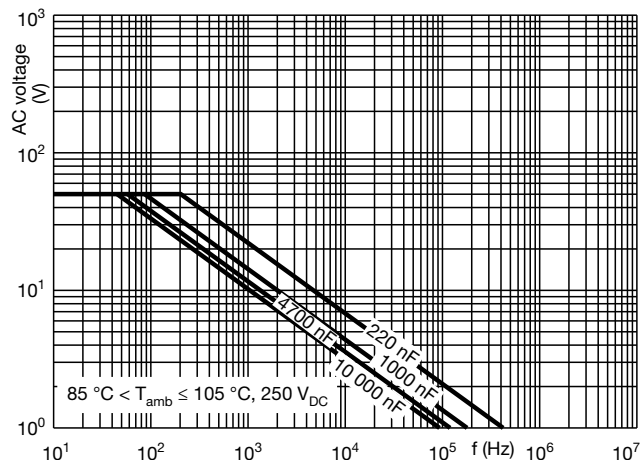
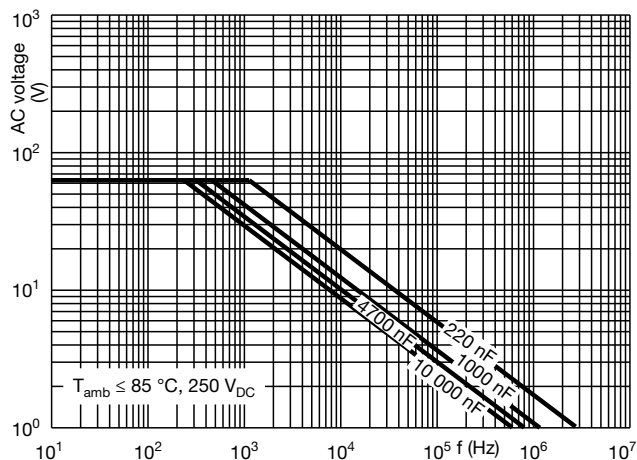
ELECTRICAL DATA AND ORDERING INFORMATION (U _{RAC} = 160 V)									
U _{RDC} (V)	CAP. ⁽²⁾ (μF)	DIMENSIONS W _{max} x H _{max} x L _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 303 AND PACKAGING					
				LOOSE IN BOX					
				l _t = 3.5 mm ± 0.5 mm			LONG LEADS ⁽¹⁾		
				C-TOL. = ± 10 %	C-TOL. = ± 5 %	SPQ	C-TOL. = ± 10 %	C-TOL. = ± 5 %	SPQ
				LAST 5 DIGITS OF CATALOG NUMBER	LAST 5 DIGITS OF CATALOG NUMBER		LAST 5 DIGITS OF CATALOG NUMBER	LAST 5 DIGITS OF CATALOG NUMBER	
630	PITCH = 10.0 mm ± 0.4 mm; d _t = 0.60 mm ± 0.06 mm; A ≤ 3.5 mm								
	0.010	4.1 x 8.8 x 12.5	0.4	61103	62103	2000	63103	64103	1250
	0.012	4.5 x 9.3 x 12.5	0.5	61123	62123	2000	63123	64123	1000
	0.015	4.9 x 9.6 x 12.5	0.5	61153	62153	2000	63153	64153	1000
	0.018	4.4 x 9.1 x 12.5	0.4	61183	62183	2000	63183	64183	1250
	0.022	4.8 x 9.5 x 12.5	0.5	61223	62223	2000	63223	64223	1000
	0.027	4.2 x 8.9 x 12.5	0.4	61273	62273	2000	63273	64273	1250
	0.033	4.0 x 8.7 x 12.5	0.4	61333	62333	2000	63333	64333	1250
	0.039	4.3 x 9.0 x 12.5	0.4	61393	62393	2000	63393	64393	1250
	0.047	4.7 x 9.4 x 12.5	0.5	61473	62473	2000	63473	64473	1000
	0.056	5.1 x 9.8 x 12.5	0.5	61563	62563	2000	63563	64563	1000
	0.068	5.5 x 10.3 x 12.5	0.6	61683	62683	2000	63683	64683	900
	PITCH = 15.0 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; A ≤ 4.0 mm								
	0.056	5.9 x 10.6 x 17.5	1.0	65563	66563	1500	67563	68563	800
	0.068	6.4 x 11.1 x 17.5	1.1	65683	66683	1500	67683	68683	800
	0.082	5.4 x 10.1 x 17.5	0.8	61823	62823	2000	63823	64823	1000
	0.10	5.2 x 9.9 x 17.5	0.8	61104	62104	2000	63104	64104	1000
	0.12	5.7 x 10.4 x 17.5	0.9	61124	62124	2000	63124	64124	900
	0.15	6.3 x 11.0 x 17.5	1.1	61154	62154	1500	63154	64154	800
	0.18	6.9 x 11.6 x 17.5	1.2	61184	62184	1500	63184	64184	700
	0.22	7.6 x 12.3 x 17.5	1.4	61224	62224	1250	63224	64224	600
	0.27	8.4 x 13.1 x 17.5	1.7	61274	62274	1000	63274	64274	500
	PITCH = 22.5 mm ± 0.4 mm; d _t = 0.80 mm ± 0.08 mm; A ≤ 4.0 mm								
	0.27	8.9 x 16.8 x 26.0	3.4	65274	66274	800	67274	67274	500
	0.33	9.9 x 17.8 x 26.0	4.0	61334	62334	600	63334	64334	500
	0.39	8.1 x 16.0 x 26.0	2.9	61394	62394	900	63394	64394	600
	0.47	7.7 x 15.6 x 26.0	2.7	61474	62474	900	63474	64474	600
	0.56	8.4 x 16.3 x 26.0	3.1	61564	62564	800	63564	64564	600
	0.68	9.4 x 17.2 x 26.0	3.7	61684	62684	700	63684	64684	500

Notes

- (1) Length of long leads:
a) $l_t = 19.0\text{ mm} \pm 4.0\text{ mm}$ for pitch = 10 mm and 15.0 mm.
b) $l_t = 25.0\text{ mm} \pm 4.0\text{ mm}$ for pitch = 22.5 mm.
(2) Values in *italic* indicate alternative dimensions.

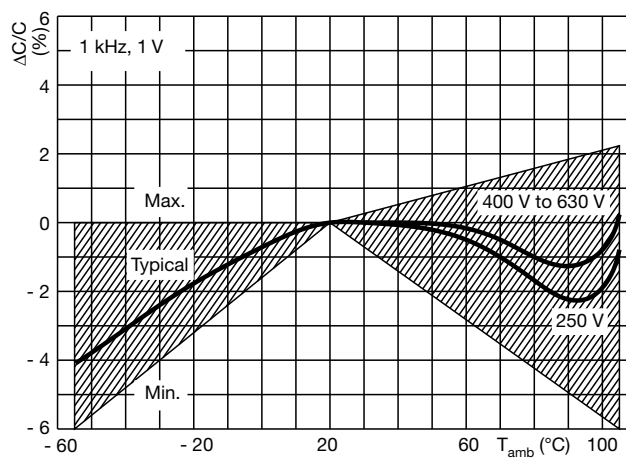
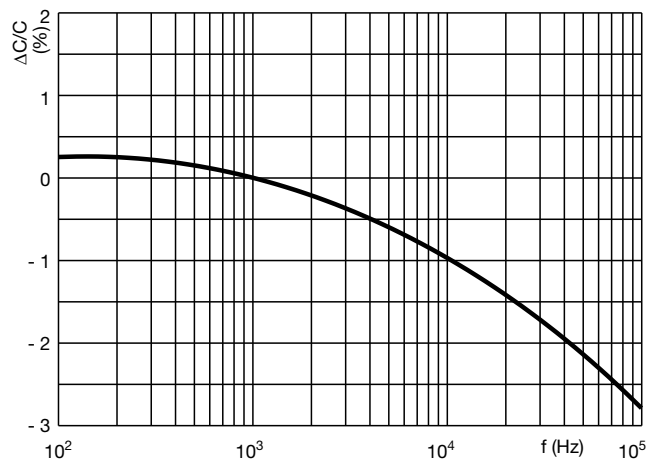


MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY

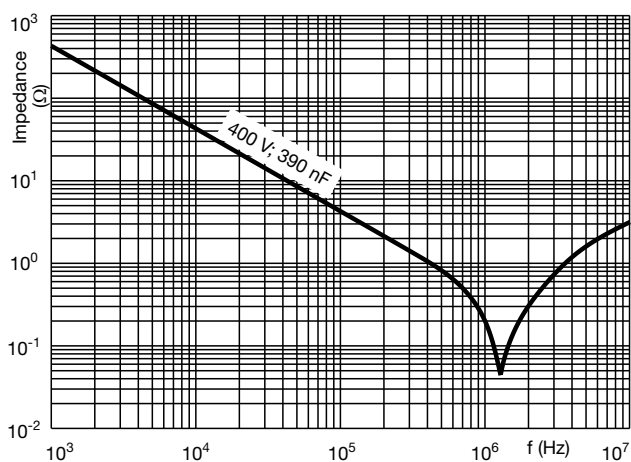




CAPACITANCE



IMPEDANCE





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<http://moschip.ru/get-element>

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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