

Metallized Polyester Film Capacitors MKT Radial Epoxy Lacquered Type

APPLICATIONS

Blocking and coupling. Bypass and energy reservoir

MARKING

C-value; tolerance; rated voltage; code for manufacturer; manufacturer's type designation; manufacturer's symbol

DIELECTRIC

Polyester film

ELECTRODES

Vacuum deposited aluminum

COATING

Flame retardant epoxy material (UL-class 94 V-0)

CONSTRUCTION

Wound mono construction

LEADS

Tinned wire



CAPACITANCE RANGE (E12 SERIES)

0.001 to 1.0 μ F

CAPACITANCE TOLERANCE

$\pm 10\%$; $\pm 5\%$

RATED (DC) VOLTAGE

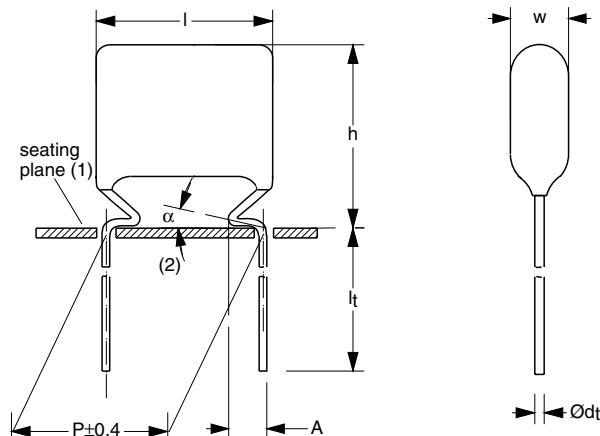
100 V; 250 V; 400 V; 630 V

RATED (AC) VOLTAGE

63 V; 160 V; 220 V; 250 V

CLIMATIC CATEGORY

55/105/56



Dimensions in mm.

(1) Hole $\varnothing 1.0$ for $d_t = 0.6$ mm.

(2) $0 \leq \alpha < 50^\circ$.

(3) $A = 2.0 \pm 0.5$ mm.

RATED TEMPERATURE

85 $^\circ$ C

MAXIMUM APPLICATION TEMPERATURE

105 $^\circ$ C

REFERENCE SPECIFICATIONS

IEC 60384-2

PERFORMANCE GRADE

Grade 1 (long life)

MATERIALS

Qualified in accordance with UL94 V-0

FEATURES

Available taped and loose in box

Lead (Pb)-free product

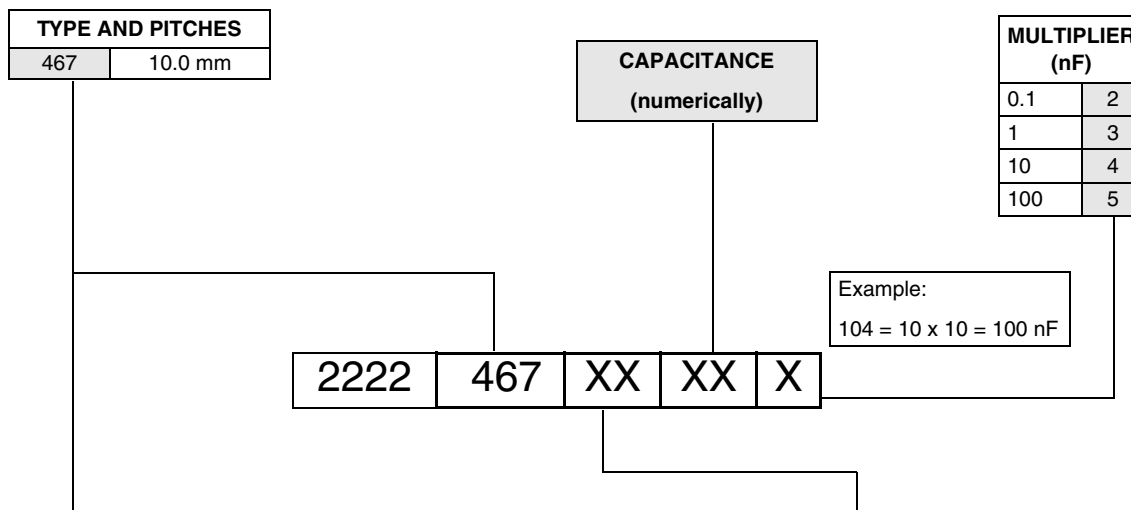


DETAIL SPECIFICATION

For more detailed data and test requirements contact:

filmcaps.roeselare@vishay.com

COMPOSITION OF CATALOG NUMBER



TYPE	PACKAGING	LEAD CONFIGURATION	PREFERRED TYPES				
			C-TOL	100 V	250 V	400 V	630 V
MKT 467	loose in box	lead length 3.5 + 1.0/- 0.5 mm	±10%	04	16	28	40
			±5%	05	17	29	41
			ON REQUEST				
MKT 467	loose in box	lead length 19.0 ±4.0 mm	±10%	51	53	55	57
			±5%	52	54	56	58
	taped on reel	H = 16.0 mm; P ₀ = 12.7 mm; reel diameter = 500 mm	±10%	06	18	30	42
			±5%	07	19	31	43

SPECIFIC REFERENCE DATA

DESCRIPTION	VALUE			
Tangent of loss angle: C ≤ 0.1 μF 0.1 μF < C ≤ 0.47 μF 0.47 μF < C ≤ 1.0 μF	at 1 kHz	at 10 kHz	at 100 kHz	
	≤75 × 10 ⁻⁴	≤120 × 10 ⁻⁴	≤200 × 10 ⁻⁴	
	≤75 × 10 ⁻⁴	≤120 × 10 ⁻⁴	≤225 × 10 ⁻⁴	
	≤75 × 10 ⁻⁴	≤120 × 10 ⁻⁴	–	
Rated voltage pulse slope (dU/dt) _R at 100 V (DC)	at 100 V (DC)	at 250 V (DC)	at 400 V (DC)	at 630 V (DC)
	30 V/μs	120 V/μs	170 V/μs	120 V/μs
R between leads, for C ≤ 0.33 μF: at 100 V; 1 minute at 500 V; 1 minute		>30000 MΩ	>30000 MΩ	>30000 MΩ
RC between leads, for C > 0.33 μF at 100 V; 1 minute	>5000 s			
R between interconnecting leads and casing; 100 V; 1 minute	>30000 MΩ	>30000 MΩ	>30000 MΩ	>30000 MΩ
Withstanding (DC) voltage (cut off current 10 mA); rise time 100 V/s	160 V; 1 minute	400 V; 1 minute	640 V; 1 minute	1008 V; 1 minute
Withstanding (DC) voltage between leads and case	200 V; 1 minute	500 V; 1 minute	800 V; 1 minute	1260 V; 1 minute



Metallized Polyester Film Capacitors
MKT Radial Epoxy Lacquered Type

Vishay BCcomponents

$U_{Rdc} = 100 \text{ V}$; $U_{Rac} = 63 \text{ V}$

C (μ F)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 467 AND PACKAGING					
			LOOSE IN BOX				REEL	
			$l_t = 3.5 \pm 0.5 \text{ mm}$			$l_t = 19.0 \pm 4.0 \text{ mm}$		
			C-tol = $\pm 10\%$	C-tol = $\pm 5\%$	SPQ	SPQ		
			last 5 digits of catalog number				SPQ	SPQ
Pitch = $10.0 \pm 0.4 \text{ mm}$; $d_t = 0.60 \pm 0.06 \text{ mm}$								
0.056 0.068 0.082 0.1	$4.0 \times 13.0 \times 12.5$	0.4	04563	05563	2000	1500	1500	
04683			05683					
04823			05823					
04104			05104					
0.12	$4.3 \times 13.3 \times 12.5$	0.5	04124	05124	2000	1500	1500	
0.15	$4.0 \times 13.0 \times 12.5$	0.4	04154	05154	2000	1500	1500	
0.18	$4.2 \times 13.2 \times 12.5$	0.4	04184	05184	2000	1500	1500	
0.22	$4.5 \times 13.6 \times 12.5$	0.5	04224	05224	2000	1500	1300	
0.27	$4.2 \times 13.2 \times 12.5$	0.4	04274	05274	2000	1500	1500	
0.33	$4.6 \times 13.6 \times 12.5$	0.5	04334	05334	2000	1500	1300	
0.39	$4.0 \times 13.0 \times 12.5$	0.4	04394	05394	2000	1500	1500	
0.47	$4.2 \times 13.2 \times 12.5$	0.4	04474	05474	2000	1500	1500	
0.56	$4.6 \times 13.6 \times 12.5$	0.5	04564	05564	2000	1500	1300	
0.68	$5.0 \times 14.0 \times 12.5$	0.5	04684	05684	1500	1250	1200	
0.82	$5.5 \times 14.5 \times 12.5$	0.6	04824	05824	1500	1000	1100	
1.0	$6.0 \times 15.0 \times 12.5$	0.6	04105	05105	1250	1000	1000	

$U_{Rdc} = 250 \text{ V}$; $U_{Rac} = 160 \text{ V}$

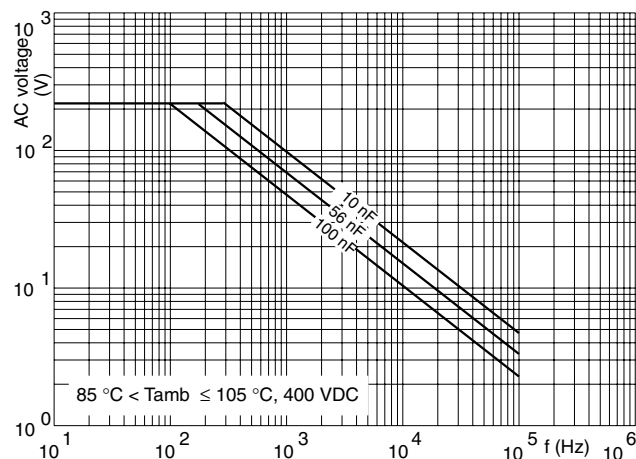
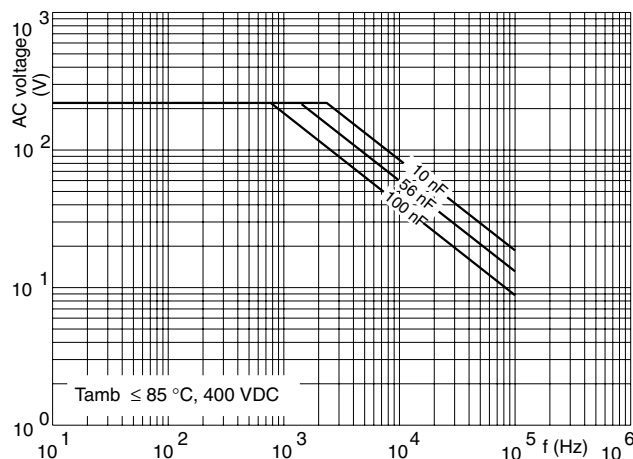
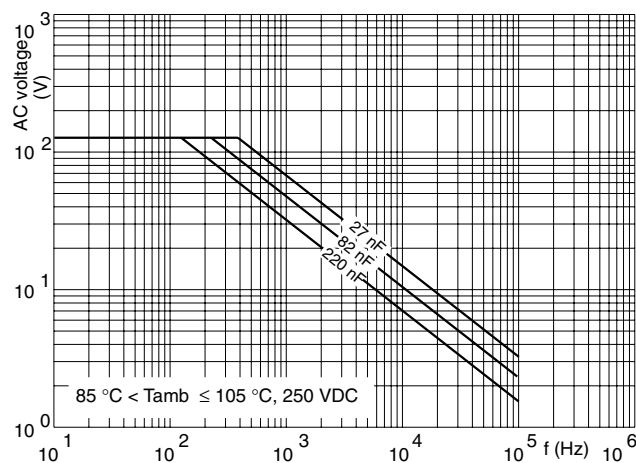
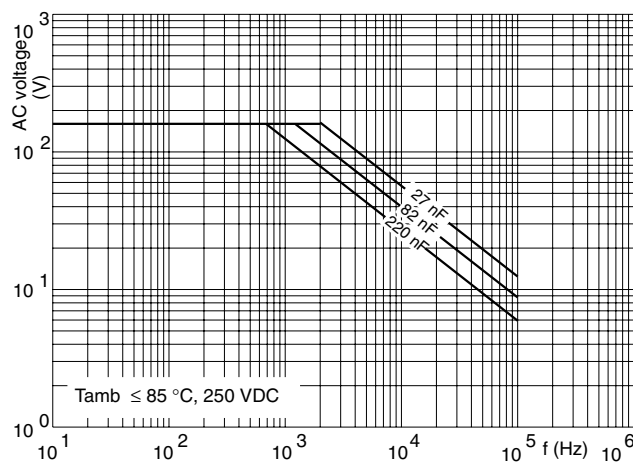
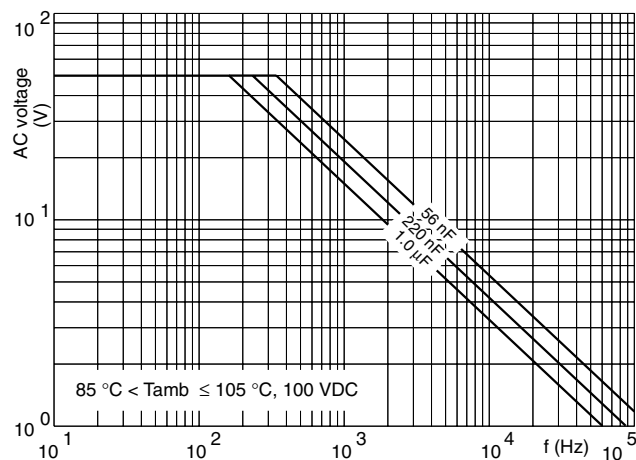
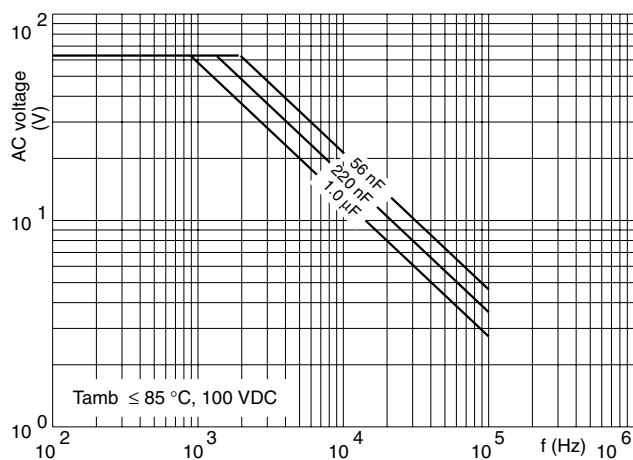
C (μF)	DIMENSIONS w _{max} × h _{max} × l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 467 AND PACKAGING				
			LOOSE IN BOX				REEL
			l _t = 3.5 ±0.5 mm			l _t = 19.0 ±4.0 mm	
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ	
			last 5 digits of catalog number				SPQ
Pitch = 10.0 ±0.4 mm; d _t = 0.60 ±0.06 mm							
0.027	4.2 × 13.2 × 12.5	0.4	16273	17273	2000	1500	1500
0.033	4.6 × 13.6 × 12.5	0.5	16333	17333	2000	1500	1300
0.039	4.0 × 13.0 × 12.5	0.4	16393	17393	2000	1500	1500
0.047	4.1 × 13.1 × 12.5	0.4	16473	17473	2000	1500	1500
0.056	4.0 × 13.0 × 12.5	0.4	16563	17563	2000	1500	1500
0.068	4.1 × 13.1 × 12.5	0.4	16683	17683	2000	1500	1500
0.082	4.4 × 13.4 × 12.5	0.5	16823	17823	2000	1500	1500
0.1	4.0 × 13.0 × 12.5	0.4	16104	17104	2000	1500	1500
0.12	4.3 × 13.3 × 12.5	0.5	16124	17124	2000	1500	1500
0.15	4.8 × 13.8 × 12.5	0.5	16154	17154	2000	1250	1300
0.18	5.2 × 14.2 × 12.5	0.5	16184	17184	1500	1000	1200
0.22	5.8 × 14.8 × 12.5	0.6	16224	17224	1500	1000	1100

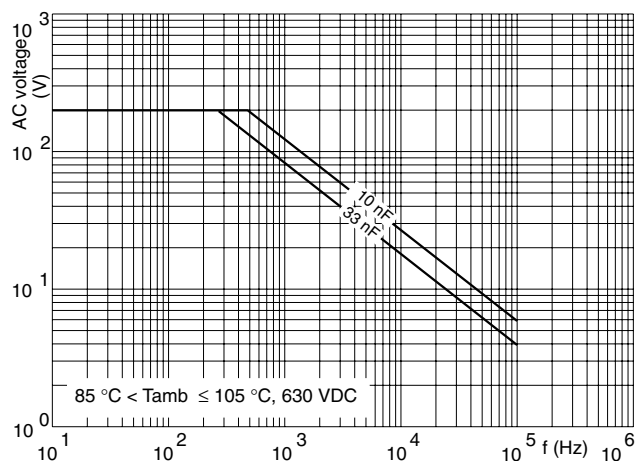
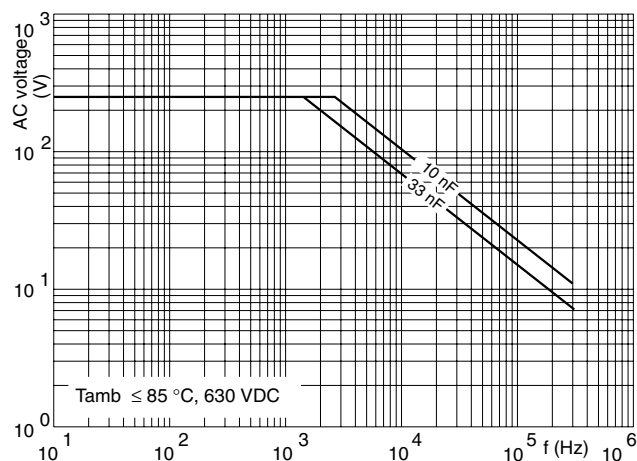
$U_{Rdc} = 400 \text{ V}$; $U_{Rac} = 220 \text{ V}$

C (μ F)	DIMENSIONS $w_{\max} \times h_{\max} \times l_{\max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 467 AND PACKAGING					
			LOOSE IN BOX				REEL	
			$l_t = 3.5 \pm 0.5 \text{ mm}$			$l_t = 19.0 \pm 4.0 \text{ mm}$		
			C-tol = $\pm 10\%$	C-tol = $\pm 5\%$	SPQ	SPQ		
			last 5 digits of catalog number				SPQ	SPQ
Pitch = 10.0 $\pm$ 0.4 mm; d_t = 0.60 $\pm$ 0.06 mm								
0.001 0.0012 0.0015 0.0018	4.5 $\times$ 13.5 $\times$ 12.5	0.5	28102	29102	2000	1500	1300	
28122			29122					
28152			29152					
28182			29182					
0.0022	4.0 $\times$ 13.0 $\times$ 12.5	0.4	28222	29222	2000	1500	1500	
0.0027	4.3 $\times$ 13.3 $\times$ 12.5	0.5	28272	29272	2000	1500	1500	
0.0033	4.6 $\times$ 13.6 $\times$ 12.5	0.5	28332	29332	2000	1500	1300	
0.0039	4.0 $\times$ 13.0 $\times$ 12.5	0.4	28392	29392	2000	1500	1500	
0.0047	4.1 $\times$ 13.2 $\times$ 12.5	0.4	28472	29472	2000	1500	1500	
0.0056	4.6 $\times$ 13.6 $\times$ 12.5	0.5	28562	29562	2000	1500	1300	
0.0068	4.2 $\times$ 13.2 $\times$ 12.5	0.4	28682	29682	2000	1500	1500	
0.0082	4.6 $\times$ 13.6 $\times$ 12.5	0.5	28822	29822	2000	1500	1300	
0.01	4.1 $\times$ 13.1 $\times$ 12.5	0.4	28103	29103	2000	1500	1500	
0.012	4.5 $\times$ 13.5 $\times$ 12.5	0.5	28123	29123	2000	1500	1300	
0.015	4.1 $\times$ 13.1 $\times$ 12.5	0.4	28153	29153	2000	1500	1500	
0.018	4.5 $\times$ 13.5 $\times$ 12.5	0.5	28183	29183	2000	1500	1300	
0.022	4.0 $\times$ 13.0 $\times$ 12.5	0.4	28223	29223	2000	1500	1500	
0.027	4.2 $\times$ 13.2 $\times$ 12.5	0.4	28273	29273	2000	1500	1500	
0.033	4.6 $\times$ 13.7 $\times$ 12.5	0.5	28333	29333	2000	1500	1300	
0.039	5.0 $\times$ 13.9 $\times$ 12.5	0.5	28393	29393	1500	1250	1200	
0.047	4.1 $\times$ 13.1 $\times$ 12.5	0.4	28473	29473	2000	1500	1500	
0.056	4.4 $\times$ 13.4 $\times$ 12.5	0.5	28563	29563	2000	1500	1500	
0.068	4.8 $\times$ 13.8 $\times$ 12.5	0.5	28683	29683	2000	1250	1300	
0.082	5.4 $\times$ 14.3 $\times$ 12.5	0.6	28823	29823	1500	1000	1200	
0.1	5.7 $\times$ 14.7 $\times$ 12.5	0.6	28104	29104	1500	1000	1100	

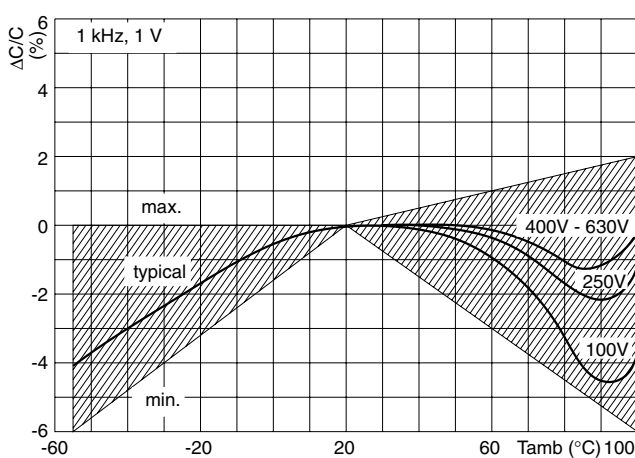
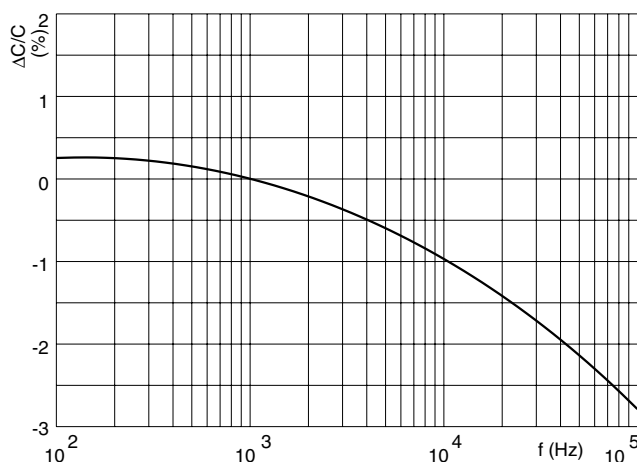
 $U_{Rdc} = 630 \text{ V}$; $U_{Rac} = 250 \text{ V}$

C (μF)	DIMENSIONS w _{max} × h _{max} × l _{max} (mm)	MASS (g)	CATALOG NUMBER 2222 467 AND PACKAGING				
			LOOSE IN BOX				REEL
			l _t = 3.5 ±0.5 mm			l _t = 19.0 ±4.0 mm	
			C-tol = ±10%	C-tol = ±5%	SPQ	SPQ	
			last 5 digits of catalog number				SPQ
Pitch = 10.0 ±0.4 mm; d _t = 0.60 ±0.06 mm							
0.01	4.1 × 13.1 × 12.5	0.4	40103	41103	2000	1500	1500
0.012	4.5 × 13.5 × 12.5	0.5	40123	41123	2000	1500	1300
0.015	4.9 × 13.9 × 12.5	0.5	40153	41153	2000	1250	1200
0.018	5.4 × 14.4 × 12.5	0.6	40183	41183	1500	1000	1100
0.022	4.8 × 13.8 × 12.5	0.5	40223	41223	2000	1250	1300
0.027	5.3 × 14.3 × 12.5	0.6	40273	41273	2000	1000	1200
0.033	5.9 × 14.9 × 12.5	0.6	40333	41333	1500	1000	1100

**MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY**



CAPACITANCE



IMPEDANCE

