

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

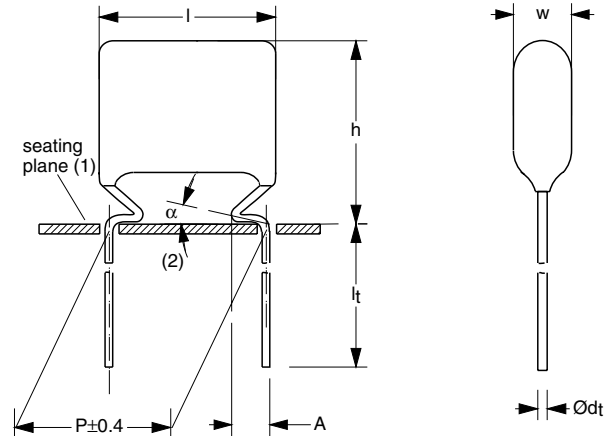
100 V; 250 V; 400 V; 630 V

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 °C

MAXIMUM APPLICATION TEMPERATURE

105 °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

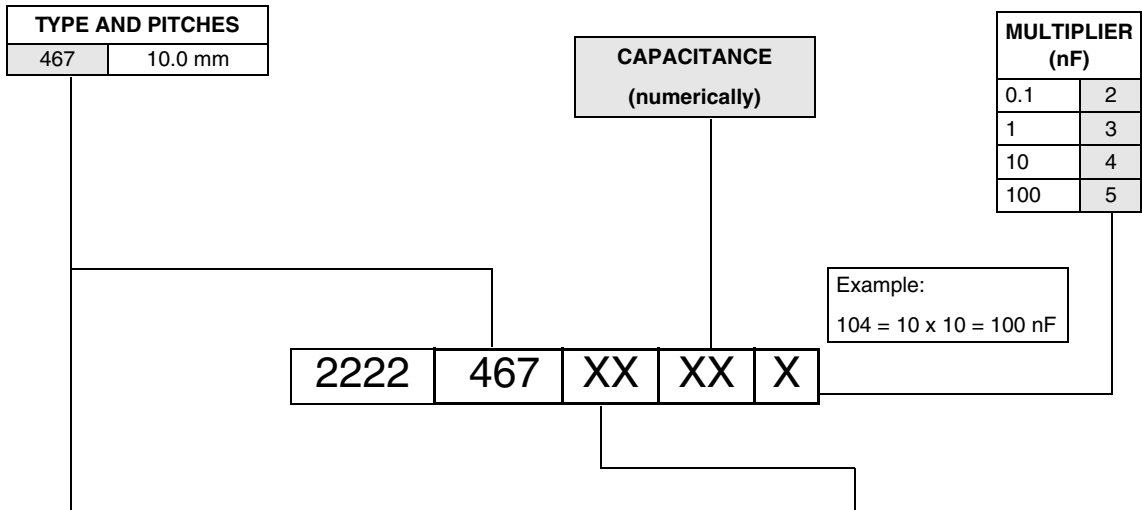
Lead (Pb)-free product


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			
	at 1 kHz	at 10 kHz	at 100 kHz	
Tangent of loss angle:				
C ≤ 0.1 μF	≤75 × 10 ⁻⁴	≤120 × 10 ⁻⁴	≤200 × 10 ⁻⁴	
0.1 μF < C ≤ 0.47 μF	≤75 × 10 ⁻⁴	≤120 × 10 ⁻⁴	≤225 × 10 ⁻⁴	
0.47 μF < C ≤ 1.0 μF	≤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		>30000 MΩ	>30000 MΩ	
at 500 V; 1 minute				>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 Vishay BCcomponents
MKT Radial Epoxy Lacquered Type

U_{Rdc} = 100 V; U_{Rac} = 63 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
			$l_t = 3.5 \pm 0.5$ mm		$l_t = 19.0 \pm 4.0$ mm		SPQ
			C-tol = $\pm 10\%$	C-tol = $\pm 5\%$	SPQ	SPQ	
Pitch = 10.0 ± 0.4 mm; $d_t = 0.60 \pm 0.06$ mm			last 5 digits of catalog number		SPQ	SPQ	SPQ
0.056	4.0 × 13.0 × 12.5	0.4	04563	05563	2000	1500	1500
0.068			04683	05683			
0.082			04823	05823			
0.1			04104	05104			
0.12	4.3 × 13.3 × 12.5	0.5	04124	05124	2000	1500	1500
0.15	4.0 × 13.0 × 12.5	0.4	04154	05154	2000	1500	1500
0.18	4.2 × 13.2 × 12.5	0.4	04184	05184	2000	1500	1500
0.22	4.5 × 13.6 × 12.5	0.5	04224	05224	2000	1500	1300
0.27	4.2 × 13.2 × 12.5	0.4	04274	05274	2000	1500	1500
0.33	4.6 × 13.6 × 12.5	0.5	04334	05334	2000	1500	1300
0.39	4.0 × 13.0 × 12.5	0.4	04394	05394	2000	1500	1500
0.47	4.2 × 13.2 × 12.5	0.4	04474	05474	2000	1500	1500
0.56	4.6 × 13.6 × 12.5	0.5	04564	05564	2000	1500	1300
0.68	5.0 × 14.0 × 12.5	0.5	04684	05684	1500	1250	1200
0.82	5.5 × 14.5 × 12.5	0.6	04824	05824	1500	1000	1100
1.0	6.0 × 15.0 × 12.5	0.6	04105	05105	1250	1000	1000

U_{Rdc} = 250 V; U_{Rac} = 160 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
			$l_t = 3.5 \pm 0.5$ mm		$l_t = 19.0 \pm 4.0$ mm		SPQ
			C-tol = $\pm 10\%$	C-tol = $\pm 5\%$	SPQ	SPQ	
Pitch = 10.0 ± 0.4 mm; $d_t = 0.60 \pm 0.06$ mm			last 5 digits of catalog number		SPQ	SPQ	SPQ
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



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

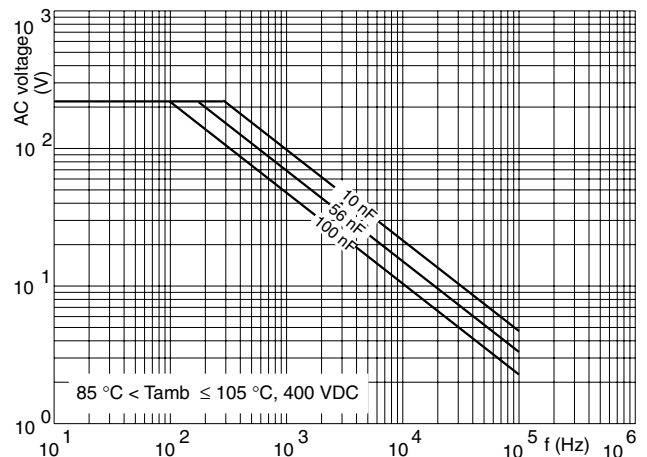
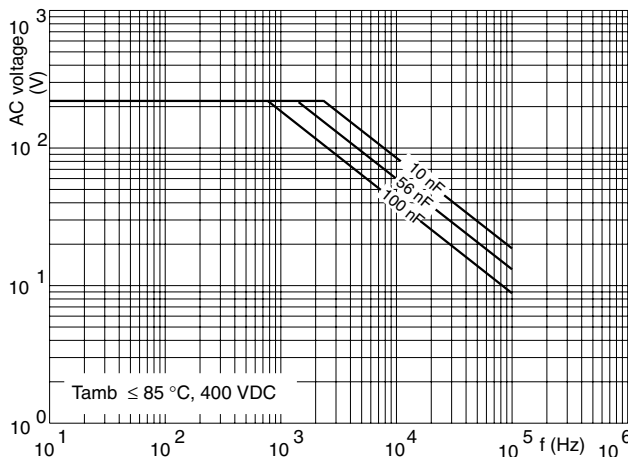
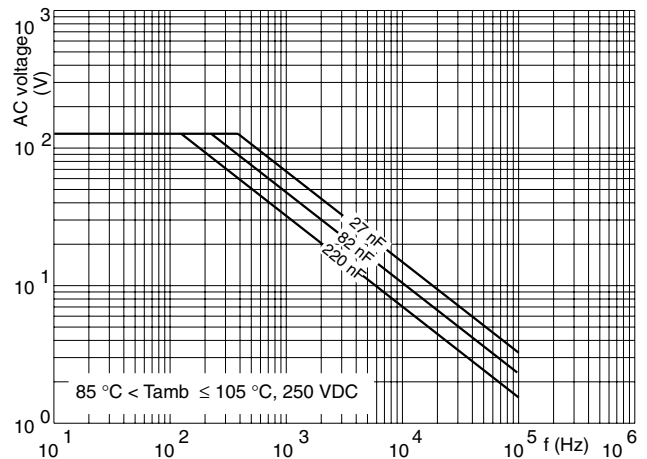
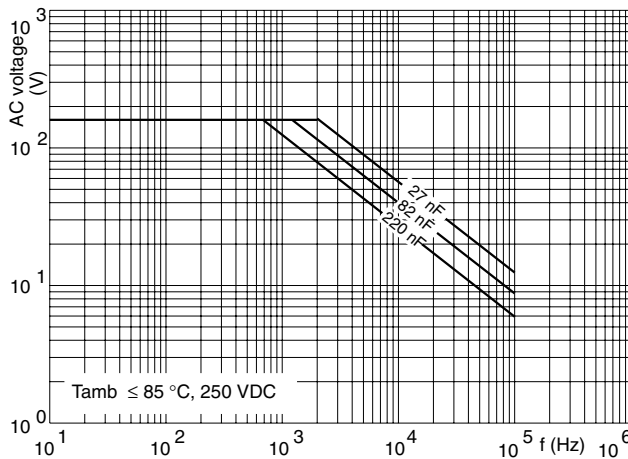
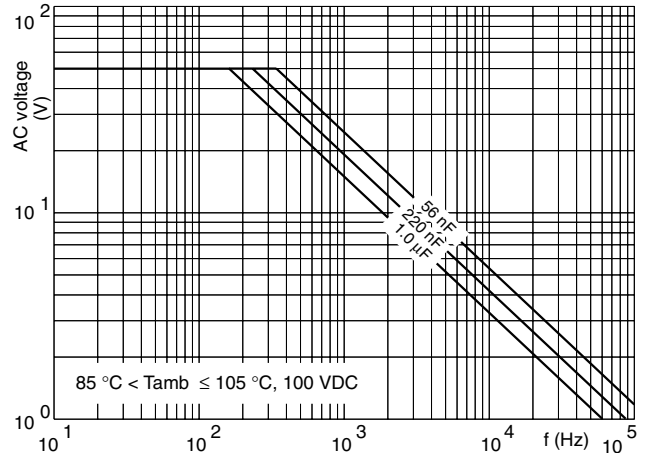
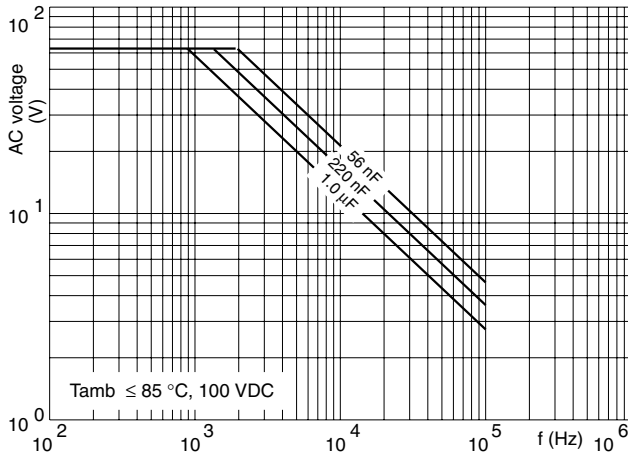
C (μF)	DIMENSIONS $w_{max} \times h_{max} \times l_{max}$ (mm)	MASS (g)	CATALOG NUMBER 2222 467 AND PACKAGING				
			LOOSE IN BOX				REEL
			$l_t = 3.5 \pm 0.5\text{ mm}$		$l_t = 19.0 \pm 4.0\text{ mm}$		SPQ
			C-tol = $\pm 10\%$	C-tol = $\pm 5\%$	SPQ	SPQ	
last 5 digits of catalog number			SPQ	SPQ	SPQ		
Pitch = 10.0 \pm 0.4 mm; $d_t = 0.60 \pm 0.06\text{ mm}$							
0.001	4.5 \times 13.5 \times 12.5	0.5	28102	29102	2000	1500	1300
0.0012			28122	29122			
0.0015			28152	29152			
0.0018			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

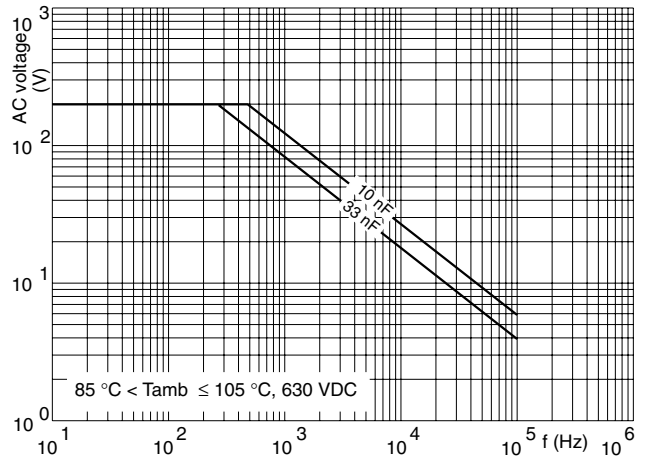
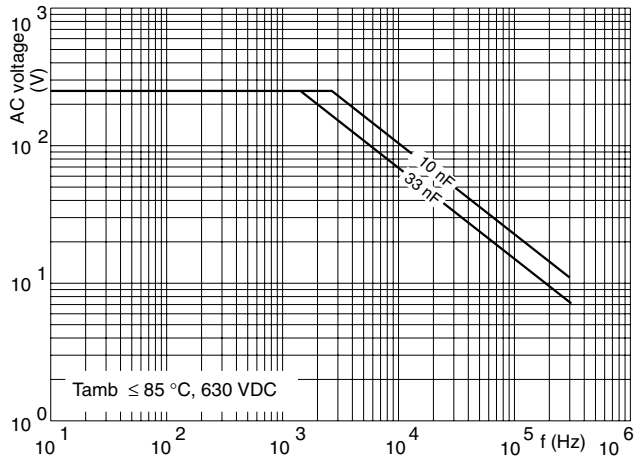
$U_{Rdc} = 630\text{ V}$; $U_{Rac} = 250\text{ V}$

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

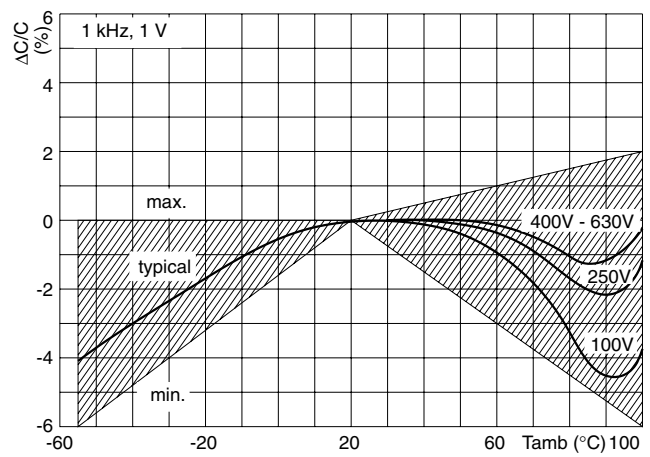
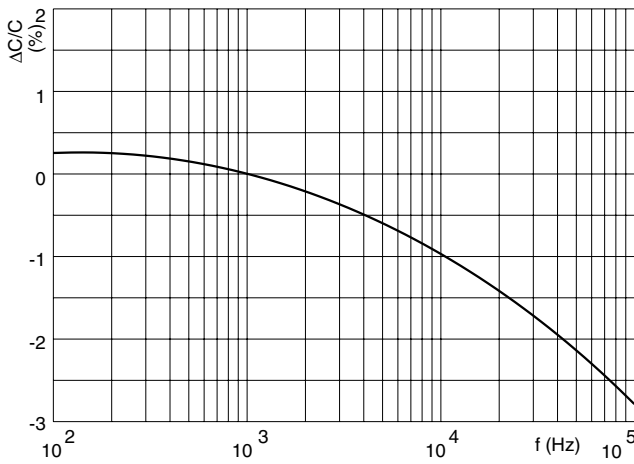


MAXIMUM RMS VOLTAGE (SINEWAVE) AS A FUNCTION OF FREQUENCY





CAPACITANCE



IMPEDANCE

