

Overview

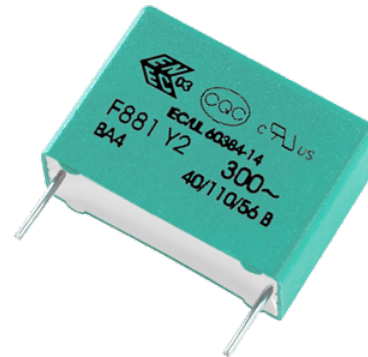
Metallized polypropylene film encapsulated with self-extinguishing resin in a box of material recognized to UL 94 V-0.

Applications

For worldwide use as electromagnetic interference suppressor in all Y2 applications (line to earth).

Benefits

- Approvals: ENEC, UL, cUL, CQC
- Rated voltage: 300 VAC 50/60 Hz
- Capacitance range: 0.01 – 1.0 μ F
- Lead spacing 22.5 - 37.5 mm
- Capacitance tolerance: $\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request
- Climatic category 40/110/56, IEC 60068-1
- Tape and reel in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -40°C to $+110^{\circ}\text{C}$
- 100% screening factory test at 4,000 VDC and 2,500 VAC



Part Number System

F	881	B	C	103	M	300	C
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Lead and Packaging Code
F = Film	Y2, Metallized Polypropylene	K = 7.5 A = 10 B = 15 D = 22.5 F = 27.5 R = 37.5	See Dimension Table	First two digits represent significant figures. Third digit specifies number of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	300	See Ordering Options Table

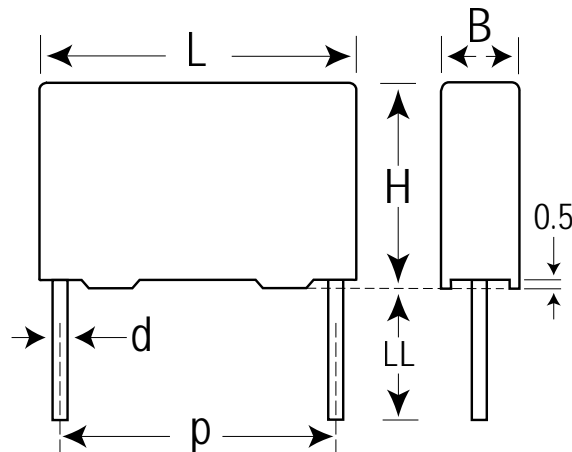
Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
7.5	Standard Lead and Packaging Options		
	Bulk (Bag)–Short Leads	4 +2/-0	C
	Bulk (Bag)–Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	$H_0 = 18.5 \pm 0.5$	L
	Other Lead and Packaging Options		
	Bulk (Bag)–Max Length Leads	20 +5/-0	ALL0L
Ammo Pack	$H_0 = 18.5 \pm 0.5$	R	

Ordering Options Table cont'd

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
10	Standard Lead and Packaging Options		
	Bulk (Bag)–Short Leads	4 +2/-0	C
	Bulk (Bag)–Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Other Lead and Packaging Options		
	Bulk (Bag)–Max Length Leads	20 +5/-0	ALL0L
	Ammo Pack	H ₀ = 18.5 +/-0.5	R
Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P	
15	Standard Lead and Packaging Options		
	Bulk (Bag)–Short Leads	4 +2/-0	C
	Bulk (Bag)–Long Leads	17 +0/-1	A
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Bulk (Bag)–Max Length Leads	25 +5/-0	ALR0L
Ammo Pack	H ₀ = 18.5 +/-0.5	R	
Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P	
22.5	Standard Lead and Packaging Options		
	Bulk (Tray)-Short Leads	4 +2/-0	C
	Bulk (Tray)-Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
	Other Lead and Packaging Options		
	Tape & Reel (Standard Reel)	H ₀ = 18.5 +/-0.5	L
	Tape & Reel (Large Reel)	H ₀ = 18.5 +/-0.5	P
Ammo Pack	H ₀ = 18.5 +/-0.5	R	
27.5	Standard Lead and Packaging Options		
	Bulk (Tray)-Short Leads	4 +2/-0	C
	Bulk (Tray)-Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z
37.5	Standard Lead and Packaging Options		
	Bulk (Tray)-Short Leads	4 +2/-0	C
	Bulk (Tray)-Long Leads	17 +0/-1	A
	Pizza Pack	4 +2/-0	Z

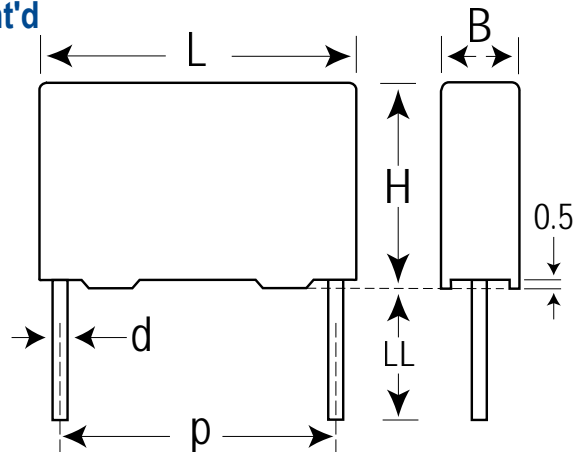
Dimensions – Millimeters



Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
KF		7.5	+/-0.4	3	Max	8	Max	10	Max	0.6	+/-0.05
KG		7.5	+/-0.4	4	Max	8	Max	10	Max	0.6	+/-0.05
KH		7.5	+/-0.4	4	Max	9	Max	10	Max	0.6	+/-0.05
KJ		7.5	+/-0.4	5	Max	10.5	Max	10	Max	0.6	+/-0.05
KM		7.5	+/-0.4	6	Max	12	Max	10.5	Max	0.6	+/-0.05
AG		10.0	+/-0.4	4.0	Max	9.0	Max	13.0	Max	0.6	+/-0.05
AK		10.0	+/-0.4	5.0	Max	11.0	Max	13.0	Max	0.6	+/-0.05
AP		10.0	+/-0.4	6.0	Max	12.0	Max	13.0	Max	0.6	+/-0.05
AO		10.0	+/-0.4	7.0	Max	17.0	Max	13.0	Max	0.6	+/-0.05
AL	Low Profile	10.0	+/-0.4	9.5	Max	7.5	Max	13.0	Max	0.6	+/-0.05
AE	Special Version	10.0	+/-0.4	4.0	Max	8.0	Max	13.0	Max	0.6	+/-0.05
BB		15.0	+/-0.4	4.0	Max	10.0	Max	18.0	Max	0.8	+/-0.05
BC		15.0	+/-0.4	5.0	Max	11.0	Max	18.0	Max	0.8	+/-0.05
BE		15.0	+/-0.4	5.5	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BG		15.0	+/-0.4	6.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
BI	High Profile	15.0	+/-0.4	6.0	Max	17.5	Max	18.0	Max	0.8	+/-0.05
BK		15.0	+/-0.4	7.5	Max	13.5	Max	18.0	Max	0.8	+/-0.05
BO	High Profile	15.0	+/-0.4	7.5	Max	18.5	Max	18.0	Max	0.8	+/-0.05
BP		15.0	+/-0.4	8.5	Max	14.5	Max	18.0	Max	0.8	+/-0.05
BT		15.0	+/-0.4	9.0	Max	12.5	Max	18.0	Max	0.8	+/-0.05
BS		15.0	+/-0.4	10.0	Max	16.0	Max	18.0	Max	0.8	+/-0.05
BY		15.0	+/-0.4	11.0	Max	19.0	Max	18.0	Max	0.8	+/-0.05
BZ	Special Version	15.0	+/-0.4	12.0	Max	20.0	Max	18.0	Max	0.8	+/-0.05
BR	Low Profile	15.0	+/-0.4	13.0	Max	12.0	Max	18.0	Max	0.8	+/-0.05
DB		22.5	+/-0.4	6.0	Max	14.5	Max	26.0	Max	0.8	+/-0.05
DI		22.5	+/-0.4	7.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DH		22.5	+/-0.4	8.0	Max	16.0	Max	26.0	Max	0.8	+/-0.05
DJ		22.5	+/-0.4	8.5	Max	17.0	Max	26.0	Max	0.8	+/-0.05
DM		22.5	+/-0.4	9.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DO		22.5	+/-0.4	10.0	Max	18.5	Max	26.0	Max	0.8	+/-0.05
DP		22.5	+/-0.4	11.0	Max	20.0	Max	26.0	Max	0.8	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Dimensions – Millimeters cont'd



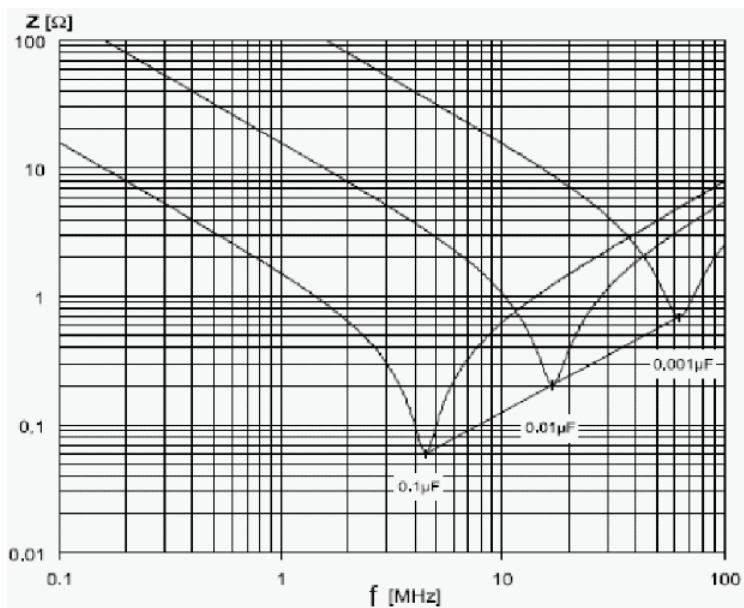
Size Code	Version	p		B		H		L		d	
		Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
DU		22.5	+/-0.4	13.0	Max	22.0	Max	26.0	Max	0.8	+/-0.05
DY		22.5	+/-0.4	15.5	Max	24.5	Max	26.0	Max	0.8	+/-0.05
FB		27.5	+/-0.4	9.0	Max	17.0	Max	31.5	Max	0.8	+/-0.05
FC		27.5	+/-0.4	11.0	Max	20.0	Max	31.5	Max	0.8	+/-0.05
FI		27.5	+/-0.4	13.0	Max	25.0	Max	31.5	Max	0.8	+/-0.05
FN		27.5	+/-0.4	14.0	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FO	High Profile	27.5	+/-0.4	17.0	Max	40.0	Max	31.5	Max	0.8	+/-0.05
FR		27.5	+/-0.4	17.5	Max	28.0	Max	31.5	Max	0.8	+/-0.05
FS		27.5	+/-0.4	19.0	Max	29.0	Max	31.5	Max	0.8	+/-0.05
FY		27.5	+/-0.4	22.0	Max	37.0	Max	31.5	Max	0.8	+/-0.05
FH	Low Profile	27.5	+/-0.4	21.0	Max	12.5	Max	31.5	Max	0.8	+/-0.05
FQ	Low Profile	27.5	+/-0.4	27.5	Max	16.0	Max	31.5	Max	0.8	+/-0.05
FT	Low Profile	27.5	+/-0.4	31.0	Max	19.0	Max	31.5	Max	0.8	+/-0.05
RB		37.5	+/-0.4	11.0	Max	22.0	Max	41.0	Max	1	+/-0.05
RF		37.5	+/-0.4	13.0	Max	24.0	Max	41.0	Max	1	+/-0.05
RH		37.5	+/-0.4	15.0	Max	26.0	Max	41.0	Max	1	+/-0.05
RC		37.5	+/-0.4	16.0	Max	28.5	Max	41.0	Max	1	+/-0.05
RD		37.5	+/-0.4	19.0	Max	32.0	Max	41.0	Max	1	+/-0.05
RP		37.5	+/-0.4	21.0	Max	38.0	Max	41.0	Max	1	+/-0.05
RO		37.5	+/-0.4	24.0	Max	44.0	Max	41.0	Max	1	+/-0.05
RU		37.5	+/-0.4	30.0	Max	45.0	Max	41.0	Max	1	+/-0.05
RV	Low Profile	37.5	+/-0.4	24.0	Max	15.0	Max	41.0	Max	1	+/-0.05
RW	Low Profile	37.5	+/-0.4	24.0	Max	19.0	Max	41.0	Max	1	+/-0.05

Note: See Ordering Options Table for lead length (LL) options.

Performance Characteristics

Rated Voltage	300 VAC 50/60 Hz	
Capacitance Range	0.01 – 1.0 μF	
Capacitance Tolerance	$\pm 20\%$, $\pm 10\%$, $\pm 5\%$ on request	
Temperature Range	-40°C to +110°C	
Climatic Category	40/110/56	
Approvals	ENEC, UL, cUL, CQC (pending)	
Dissipation Factor	Maximum Values at +23°C	
		$C \leq 0.1 \mu\text{F}$
	1 kHz	0.3%
Test Voltage Between Terminals	$C > 0.1 \mu\text{F}$	
	0.2%	
	The 100% screening factory test is carried out at 4,000 VDC and 2,500 VAC. The voltage level is selected to meet the requirements in applicable equipment standards. All electrical characteristics are checked after the test. It is not permitted to repeat this test as there is a risk to damage the capacitor. KEMET is not liable in such case for any failures.	
Insulation Resistance	Between Terminals:	
	$C \leq 0.33 \mu\text{F}$	$\geq 30,000 \text{ M}\Omega$
	$C > 0.33 \mu\text{F}$	$\geq 10,000 \text{ M}\Omega \cdot \mu\text{F}$
In DC Applications	Recommended voltage $\leq 1,000 \text{ VDC}$	




Impedance Graph



Environmental Test Data

Test	IEC Publication	Procedure
Endurance	IEC 60384-14	1.7 x V _R VAC 50 Hz, once every hour increase to 1,000 VAC for 0.1 second, 1,000 hours at upper rated temperature
Vibration	IEC 60068-2-6 Test Fc	3 directions at 2 hours each 10 – 55 Hz at 0.75 mm or 98 m/s ²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ²
Change of Temperature	IEC 60068-2-14 Test Na	Upper and lower rated temperature 5 cycles
Active Flammability	IEC 60384-14	V _R + 20 surge pulses at 5 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle-flame test
Damp Heat Steady State	IEC 60068-2-78 Test Cab	+40°C and 93% RH, 56 days

Approvals

Mark	Specification	File Number
	EN/IEC 60384-14	In progress
	UL 60384-14 and CAN/CSA-E60384-14	In progress
	GB/T 14472	Pending

Environmental Compliance

All KEMET EMI capacitors are RoHS Compliant and Halogen Free.



Table 1 – Ratings & Part Number Reference

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.001	KF	3	8	10	7.5	800	F881KF102(1)300(2)
0.0012	KG	4	8	10	7.5	800	F881KG122(1)300(2)
0.0015	KG	4	8	10	7.5	800	F881KG152(1)300(2)
0.0018	KH	4	9	10	7.5	800	F881KH182(1)300(2)
0.0022	KH	4	9	10	7.5	800	F881KH222(3)300(2)
0.0025	KJ	5	10.5	10	7.5	800	F881KJ252(1)300(2)
0.0027	KJ	5	10.5	10	7.5	800	F881KJ272(1)300(2)
0.0033	KJ	5	10.5	10	7.5	800	F881KJ332(1)300(2)
0.0039	KJ	5	10.5	10	7.5	800	F881KJ392(3)300(2)
0.0039	KM	6	12	10.5	7.5	800	F881KM392(1)300(2)
0.0047	KM	6	12	10.5	7.5	800	F881KM472(1)300(2)
0.0056	KM	6	12	10.5	7.5	800	F881KM562(3)300(2)
0.001	AE	4	8	13	10	800	F881AE102(1)300(2)
0.0012	AE	4	8	13	10	800	F881AE122(1)300(2)
0.0015	AE	4	8	13	10	800	F881AE152(1)300(2)
0.0018	AE	4	8	13	10	800	F881AE182(1)300(2)
0.0018	AL	9.5	7.5	13	10	800	F881AL182(1)300(2)
0.0022	AL	9.5	7.5	13	10	800	F881AL222(1)300(2)
0.0025	AG	4	9	13	10	800	F881AG252(1)300(2)
0.0025	AL	9.5	7.5	13	10	800	F881AL252(1)300(2)
0.0027	AG	4	9	13	10	800	F881AG272(1)300(2)
0.0027	AL	9.5	7.5	13	10	800	F881AL272(1)300(2)
0.0033	AK	5	11	13	10	800	F881AK332(1)300(2)
0.0033	AL	9.5	7.5	13	10	800	F881AL332(1)300(2)
0.0039	AK	5	11	13	10	800	F881AK392(1)300(2)
0.0039	AL	9.5	7.5	13	10	800	F881AL392(1)300(2)
0.0047	AK	5	11	13	10	800	F881AK472(3)300(2)
0.0047	AL	9.5	7.5	13	10	800	F881AL472(1)300(2)
0.0056	AL	9.5	7.5	13	10	800	F881AL562(1)300(2)
0.0056	AP	6	12	13	10	800	F881AP562(1)300(2)
0.0068	AL	9.5	7.5	13	10	800	F881AL682(3)300(2)
0.0068	AP	6	12	13	10	800	F881AP682(1)300(2)
0.0082	AO	7	17	13	10	800	F881AO822(1)300(2)
0.01	AO	7	17	13	10	800	F881AO103(1)300(2)
0.0027	BB	4	10	18	15	600	F881BB272(1)300(2)
0.0033	BB	4	10	18	15	600	F881BB332(1)300(2)
0.0039	BB	4	10	18	15	600	F881BB392(1)300(2)
0.0047	BB	4	10	18	15	600	F881BB472(1)300(2)
0.0056	BB	4	10	18	15	600	F881BB562(1)300(2)
0.0068	BB	4	10	18	15	600	F881BB682(1)300(2)
0.0082	BB	4	10	18	15	600	F881BB822(1)300(2)
0.01	BB	4	10	18	15	600	F881BB103(3)300(2)
0.01	BC	5	11	18	15	600	F881BC103(1)300(2)
0.012	BC	5	11	18	15	600	F881BC123(1)300(2)
0.015	BC	5	11	18	15	600	F881BC153(3)300(2)
0.015	BE	5.5	12.5	18	15	600	F881BE153(1)300(2)
0.015	BT	9	12.5	18	15	600	F881BT153(1)300(2)
0.018	BE	5.5	12.5	18	15	600	F881BE183(1)300(2)
0.018	BT	9	12.5	18	15	600	F881BT183(1)300(2)
0.022	BG	6	12	18	15	600	F881BG223(1)300(2)
0.022	BT	9	12.5	18	15	600	F881BT223(1)300(2)
0.025	BI	6	17.5	18	15	600	F881BI253(3)300(2)
0.025	BI	6	17.5	18	15	600	F881BI253(1)300(2)
0.025	BK	7.5	13.5	18	15	600	F881BK253(1)300(2)
0.025	BR	13	12	18	15	600	F881BR253(1)300(2)
0.025	BT	9	12.5	18	15	600	F881BT253(1)300(2)
0.027	BI	6	17.5	18	15	600	F881BI273(1)300(2)
0.027	BK	7.5	13.5	18	15	600	F881BK273(1)300(2)
0.027	BR	13	12	18	15	600	F881BR273(1)300(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.027	BT	9	12.5	18	15	600	F881BT273(1)300(2)
0.033	BI	6	17.5	18	15	600	F881BI333(1)300(2)
0.033	BO	7.5	18.5	18	15	600	F881BO333(1)300(2)
0.033	BR	13	12	18	15	600	F881BR333(1)300(2)
0.033	BT	9	12.5	18	15	600	F881BT333(1)300(2)
0.039	BI	6	17.5	18	15	600	F881BI393(3)300(2)
0.039	BO	7.5	18.5	18	15	600	F881BO393(1)300(2)
0.039	BP	8.5	14.5	18	15	600	F881BP393(1)300(2)
0.039	BR	13	12	18	15	600	F881BR393(1)300(2)
0.039	BT	9	12.5	18	15	600	F881BT393(3)300(2)
0.047	BO	7.5	18.5	18	15	600	F881BO473(1)300(2)
0.047	BP	8.5	14.5	18	15	600	F881BP473(3)300(2)
0.047	BR	13	12	18	15	600	F881BR473(1)300(2)
0.047	BS	10	16	18	15	600	F881BS473(1)300(2)
0.056	BO	7.5	18.5	18	15	600	F881BO563(3)300(2)
0.056	BR	13	12	18	15	600	F881BR563(3)300(2)
0.056	BS	10	16	18	15	600	F881BS563(1)300(2)
0.068	BY	11	19	18	15	600	F881BY683(1)300(2)
0.082	BY	11	19	18	15	600	F881BY823(3)300(2)
0.082	BZ	12	20	18	15	600	F881BZ823(1)300(2)
0.039	DB	6	14.5	26	22.5	500	F881DB393(1)300(2)
0.047	DB	6	14.5	26	22.5	500	F881DB473(1)300(2)
0.056	DB	6	14.5	26	22.5	500	F881DB563(3)300(2)
0.056	DI	7	16	26	22.5	500	F881DI563(1)300(2)
0.068	DI	7	16	26	22.5	500	F881DI683(1)300(2)
0.082	DH	8	16	26	22.5	500	F881DH823(1)300(2)
0.082	DI	7	16	26	22.5	500	F881DI823(3)300(2)
0.1	DH	8	16	26	22.5	500	F881DH104(3)300(2)
0.1	DJ	8.5	17	26	22.5	500	F881DJ104(1)300(2)
0.12	DJ	8.5	17	26	22.5	500	F881DJ124(3)300(2)
0.12	DM	9	18.5	26	22.5	500	F881DM124(1)300(2)
0.15	DO	10	18.5	26	22.5	500	F881DO154(1)300(2)
0.18	DP	11	20	26	22.5	500	F881DP184(1)300(2)
0.22	DP	11	20	26	22.5	500	F881DP224(3)300(2)
0.22	DU	13	22	26	22.5	500	F881DU224(1)300(2)
0.25	DU	13	22	26	22.5	500	F881DU254(1)300(2)
0.27	DU	13	22	26	22.5	500	F881DU274(1)300(2)
0.33	DY	15.5	24.5	26	22.5	500	F881DY334(1)300(2)
0.39	DY	15.5	24.5	26	22.5	500	F881DY394(1)300(2)
0.1	FB	9	17	31.5	27.5	400	F881FB104(1)300(2)
0.12	FB	9	17	31.5	27.5	400	F881FB124(1)300(2)
0.15	FB	9	17	31.5	27.5	400	F881FB154(1)300(2)
0.18	FC	11	20	31.5	27.5	400	F881FC184(1)300(2)
0.22	FC	11	20	31.5	27.5	400	F881FC224(1)300(2)
0.22	FH	21	12.5	31.5	27.5	400	F881FH224(1)300(2)
0.25	FC	11	20	31.5	27.5	400	F881FC254(3)300(2)
0.25	FH	21	12.5	31.5	27.5	400	F881FH254(1)300(2)
0.27	FC	11	20	31.5	27.5	400	F881FC274(3)300(2)
0.27	FH	21	12.5	31.5	27.5	400	F881FH274(1)300(2)
0.27	FI	13	25	31.5	27.5	400	F881FI274(1)300(2)
0.33	FH	21	12.5	31.5	27.5	400	F881FH334(3)300(2)
0.33	FI	13	25	31.5	27.5	400	F881FI334(1)300(2)
0.39	FI	13	25	31.5	27.5	400	F881FI394(1)300(2)
0.39	FQ	27.5	16	31.5	27.5	400	F881FQ394(1)300(2)
0.47	FI	13	25	31.5	27.5	400	F881FI474(3)300(2)
0.47	FN	14	28	31.5	27.5	400	F881FN474(1)300(2)
0.47	FQ	27.5	16	31.5	27.5	400	F881FQ474(1)300(2)
0.56	FO	17	40	31.5	27.5	400	F881FO564(1)300(2)
0.56	FQ	27.5	16	31.5	27.5	400	F881FQ564(3)300(2)

(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Table 1 – Ratings & Part Number Reference cont'd

Cap Value (μ F)	Size Code	Max Dimensions in mm			Lead Spacing (p)	dV/dt (V/ μ s)	Part Number
		B	H	L			
0.56	FR	17.5	28	31.5	27.5	400	F881FR564(1)300(2)
0.56	FT	31	19	31.5	27.5	400	F881FT564(1)300(2)
0.68	FO	17	40	31.5	27.5	400	F881FO684(1)300(2)
0.68	FR	17.5	28	31.5	27.5	400	F881FR684(1)300(2)
0.68	FT	31	19	31.5	27.5	400	F881FT684(1)300(2)
0.82	FO	17	40	31.5	27.5	400	F881FO824(1)300(2)
0.82	FS	19	29	31.5	27.5	400	F881FS824(3)300(2)
0.82	FT	31	19	31.5	27.5	400	F881FT824(3)300(2)
0.82	FY	22	37	31.5	27.5	400	F881FY824(1)300(2)
1	FO	17	40	31.5	27.5	400	F881FO105(3)300(2)
1	FY	22	37	31.5	27.5	400	F881FY105(1)300(2)
0.33	RB	11	22	41	37.5	300	F881RB334(1)300(2)
0.39	RB	11	22	41	37.5	300	F881RB394(1)300(2)
0.47	RB	11	22	41	37.5	300	F881RB474(3)300(2)
0.47	RF	13	24	41	37.5	300	F881RF474(1)300(2)
0.47	RV	24	15	41	37.5	300	F881RV474(1)300(2)
0.56	RF	13	24	41	37.5	300	F881RF564(1)300(2)
0.56	RV	24	15	41	37.5	300	F881RV564(1)300(2)
0.68	RF	13	24	41	37.5	300	F881RF684(3)300(2)
0.68	RH	15	26	41	37.5	300	F881RH684(1)300(2)
0.68	RV	24	15	41	37.5	300	F881RV684(3)300(2)
0.82	RH	15	26	41	37.5	300	F881RH824(1)300(2)
0.82	RW	24	19	41	37.5	300	F881RW824(1)300(2)
1	RC	16	28.5	41	37.5	300	F881RC105(3)300(2)
1	RD	19	32	41	37.5	300	F881RD105(1)300(2)
1	RW	24	19	41	37.5	300	F881RW105(3)300(2)
Cap Value (μ F)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	dV/dt (V/ μ s)	Part Number

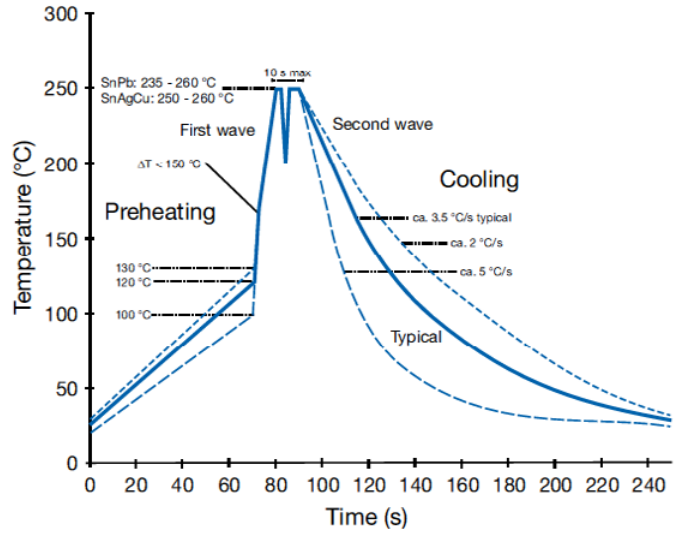
(1) $M = \pm 20\%$, $K = \pm 10\%$, $J = \pm 5\%$ on request.

(2) Insert lead and packaging code. See table for available options.

(3) $M = \pm 20\%$ (only available tolerance).

Soldering Process

The implementation of the RoHS Directive has required the use of SnAuCu (SAC) or SnCu alloys as primary solder. These alloys require a higher liquidus temperature (217°C – 221°C) as compared to SnPb eutectic alloy (183°C). Due to the higher pre-heat and wave temperatures, the heat stress to components has increased considerably. Polypropylene capacitors are especially sensitive to soldering temperature due to the relatively low melting point of polypropylene material (160°C – 170°C). As a result, wave soldering can be destructive, especially to mechanically small polypropylene capacitors with lead spacings of 5 – 10 mm. For more information, please refer to KEMET's Recommended Soldering Profiles or contact a KEMET representative. IEC Publication 61760-1 Edition 2 may also be consulted for general guidelines.



Marking

- KEMET or KEC
- Series
- Capacitance
- Capacitance tolerance
- Rated voltage
- Y2
- Approval marks
- Manufacturing date code
- IEC climatic category
- Passive flammability class

Lateral Marking	Top Marking
<p>EN 03 CQC cA us IEC/UL 60384-14 F881 Y2 300~ BA1 40/110/56 B</p>	<p>KEMET μ22 M</p>

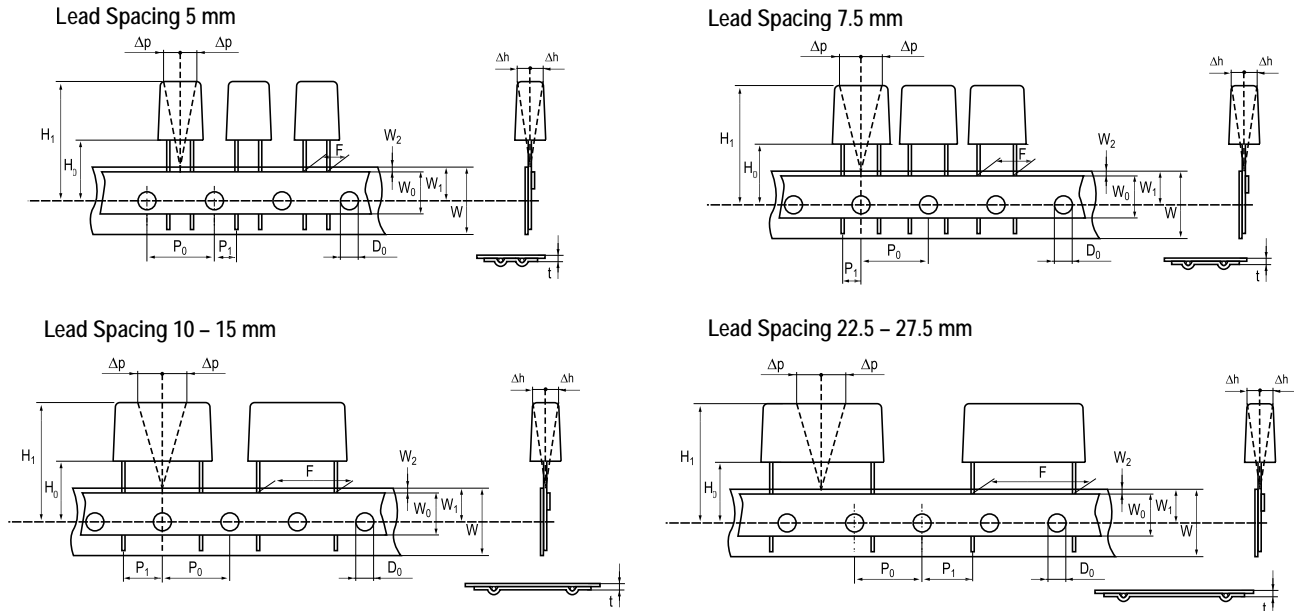
Packaging Quantities

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel Ø 355 mm	Large Reel Ø 500 mm	Ammo	Pizza
KE	7.5	2.5	6	10	2000	3000	2500		3500	
KF		3	8	10	1500	1750	2100		2800	
KG		4	8	10	2000	1500	1500		2100	
KJ		5	10.5	10	1500	1000	1200		1600	
KM		6	12	10.5	1000	800	1000		1350	
KH		4	9	10	2000	1500	1500		2100	
AN	10	3.5	9	13	2200	3200	850	1700	1150	
AG		4	9	13	2000	2200	750	1500	1000	
AK		5	11	13	1300	2000	600	1250	800	
AP		6	12	13	1000	1800	500	1000	680	
AO		7	17	13	600	900	450	900	580	
AL		9.5	7.5	13	1100	2000	300	600	430	
AE		4	8	13	2000	2200	750	1500	1000	
BB	15	4	10	18	1300	1500	750	1500	1000	1411
BC		5	11	18	1000	1250	600	1250	800	1139
BE		5.5	12.5	18	800	1100	550	1100	750	1020
BG		6	12	18	1750	1000	500	1000	680	935
BK		7.5	13.5	18	1000	800	350	800	500	748
BI		6	17.5	18	1000	800	500	1000	680	935
BP		8.5	14.5	18	1000	650	300	700	440	663
BT		9	12.5	18	1000	700	270	650	410	629
BO		7.5	18.5	18	900	600	350	800	500	748
BS		10	16	18	750	550	300	600	380	561
BR		13	12	18	750	520	200	480	280	425
BY		11	19	18	450	400	250	500	340	510
BA		8.5	12.5	18	1000	650	300	700	440	663
BZ	12	20	18	350	300	220	450	330	459	
DB	22.5	6	14.5	26	1638	702	300	700	464	660
DI		7	16	26	1188	594	250	550	380	564
DH		8.0	16.0	26	1026	513	240	500	330	492
DJ		8.5	17	26	972	486	250	450	280	468
DM		9	18.5	26	918	459	200	400	300	444
DO		10	18.5	26	810	405	160	350	235	396
DP		11	20	26	756	378	190	350	217	360
DU		13	22	26	540	324	150	300	200	300
DY		15.5	24.5	26	450	270	120	250	170	252

Packaging Quantities cont'd

Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Standard Reel Ø 355 mm	Large Reel Ø 500 mm	Ammo	Pizza
FB	27.5	9.0	17.0	31.5	816	408				370
FC		11.0	20.0	31.5	672	336				300
FI		13.0	25.0	31.5	480	288				250
FN		14.0	28.0	31.5	352	176				230
FO		17.0	40.0	31.5	216	144				190
FR		17.5	28.0	31.5	256	128				190
FS		19.0	29.0	31.5	256	128				170
FY		22.0	37.0	31.5	168	112				150
FH		21.0	12.5	31.5	392	168				150
FQ		27.5	16.0	31.5	280	120				120
FT		31.0	19.0	31.5	240	120				100
RB	37.5	11.0	22.0	41.0	420	252				210
RF		13.0	24.0	41.0	360	216				175
RH		15.0	26.0	41.0	300	180				154
RC		16.0	28.5	41.0	216	108				140
RD		19.0	32.0	41.0	192	96				119
RP		21.0	38.0	41.0	126	84				105
RO		24.0	44.0	41.0	108	72				91
RU		30.0	45.0	41.0	90	60				77
RV		24.0	15.0	41.0	252	108				91
RW		24.0	19.0	41.0	216	108				91

Lead Taping & Packaging (IEC 60286–2)



Taping Specification

Dimensions in mm									Standard IEC 60286–2
Lead spacing	+6/-0.1	F	5	7.5	10	15	22.5	27.5	F
Carrier tape width	+1/-0.5	W	18	18	18	18	18	18	18 ^{+1/-0.5}
Hold-down tape width	MIN	W ₀	6	6	9	10	10	10	
Position of sprocket hole	+/-0.5	W ₁	9	9	9	9	9	9	9 ^{+0.75/-0.5}
Distance between tapes	MAX	W ₂	3	3	3	3	3	3	3
Sprocket hole diameter	+/-0.2	D ₀	4	4	4	4	4	4	4
Feed hole lead spacing	+/-0.2 ⁽¹⁾	P ₀ ⁽³⁾	12.7	12.7	12.7	12.7	12.7	12.7	12.7
Distance lead - feed hole	+/-0.7	P ₁	3.85	3.75	7.7	5.2	7.8	5.3	P ¹
Deviation tape - plane	MAX	Δp	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Lateral deviation	+/-2	Δh	2	2	2	2	2	2	2
Total thickness	+/-0.2	t	0.7	0.7	0.7	0.7	0.9 ^{MAX}	0.9 ^{MAX}	0.9 ^{MAX}
Sprocket hole/cap body	+/-0.5	H ₀ ⁽²⁾	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18.5 ^{+/-0.5}	18 ^{+2/-0}

(1) Maximum cumulative feed hole error, 1 mm per 20 parts.

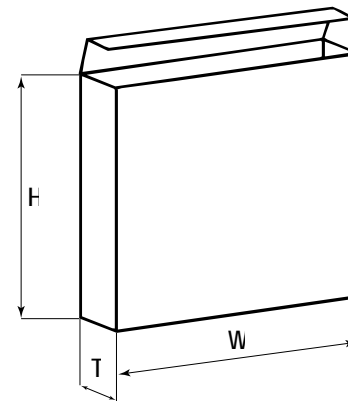
(2) 16.5 mm available on request.

(3) 15 mm available on request (F ≥ 10 mm).

Lead Taping & Packaging (IEC 60286–2) cont'd

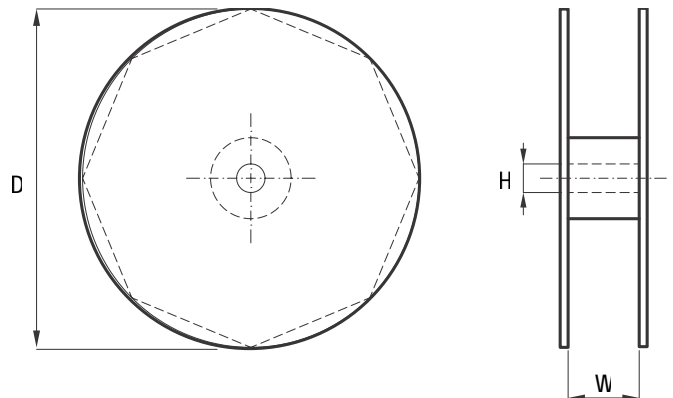
Ammo Specifications

Series	Dimensions (mm)		
	H	W	T
R4x, R4x+R, R7x, RSB	360	340	59
F5A, F5B, F5D			
F6xx, F8xx			
PHExxx, PMExxx, PMRxxx	330	330	50



Reel Specifications

Series	Dimensions (mm)		
	D	H	W
R4x, R4x+R, R7x, RSB	355 500	30	55 (Max)
F5A, F5B, F5D		25	
F6xx, F8xx			
PHExxx, PMExxx, PMRxxx	360 500	30	46 (Max)



Manufacturing Date Code (IEC–60062)

Y = Year, Z = Month			
Year	Code	Month	Code
2000	M	January	1
2001	N	February	2
2002	P	March	3
2003	R	April	4
2004	S	May	5
2005	T	June	6
2006	U	July	7
2007	V	August	8
2008	W	September	9
2009	X	October	0
2010	A	November	N
2011	B	December	D
2012	C		
2013	D		
2014	E		
2015	F		
2016	H		
2017	J		
2018	K		
2019	L		
2020	M		

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Southern Europe

Geneva, Switzerland
Tel: 41-22-715-0100

Paris, France
Tel: 33-1-4646-1009

Sasso Marconi, Italy
Tel: 39-051-939111

Milan, Italy
Tel: 39-02-57518176

Rome, Italy
Tel: 39-06-23231718

Madrid, Spain
Tel: 34-91-804-4303

Central Europe

Landsberg, Germany
Tel: 49-8191-3350800

Dortmund, Germany
Tel: 49-2307-3619672

Kwidzyn, Poland
Tel: 48-55-279-7025

Northern Europe

Bishop's Stortford, United Kingdom
Tel: 44-1279-757201

Weymouth, United Kingdom
Tel: 44-1305-830747

Coatbridge, Scotland
Tel: 44-1236-434455

Färjestaden, Sweden
Tel: 46-485-563934

Espoo, Finland
Tel: 358-9-5406-5000

Asia

Northeast Asia

Hong Kong
Tel: 852-2305-1168

Shenzhen, China
Tel: 86-755-2518-1306

Beijing, China
Tel: 86-10-5829-1711

Shanghai, China
Tel: 86-21-6447-0707

Taipei, Taiwan
Tel: 886-2-27528585

Southeast Asia

Singapore
Tel: 65-6586-1900

Penang, Malaysia
Tel: 60-4-6430200

Bangalore, India
Tel: 91-806-53-76817

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Other KEMET Resources

Tools	
Resource	Location
Configure A Part: CapEdge	http://capacitoredge.kemet.com
SPICE & FIT Software	http://www.kemet.com/spice
Search Our FAQs: KnowledgeEdge	http://www.kemet.com/keask

Product Information	
Resource	Location
Products	http://www.kemet.com/products
Technical Resources (Including Soldering Techniques)	http://www.kemet.com/technicalpapers
RoHS Statement	http://www.kemet.com/rohs
Quality Documents	http://www.kemet.com/qualitydocuments

Product Request	
Resource	Location
Sample Request	http://www.kemet.com/sample
Engineering Kit Request	http://www.kemet.com/kits

Contact	
Resource	Location
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Investor Relations	http://www.kemet.com/ir
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Twitter	http://twitter.com/kemetcapacitors

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Class Y2

Polypropylene Metallized Film EMI Suppression Capacitors – F881 Series, Class Y2, 300 VAC
