

Metallized Polypropylene Film EMI Suppression Capacitors for Harsh Environmental Conditions F863H, THB Grade IIB, Class X2, 310 VAC, 125°C (Automotive Grade)

Overview

The F863H series is constructed of metallized polypropylene film encapsulated with self-extinguishing resin in a box material recognized by UL 94 V-0. The F863H series is ideal for harsh environmental conditions and meets the demanding Automotive Electronics Council's AEC-Q200 qualification requirements.

Applications

Typical applications include parallel connection and in series with the mains for indoor application, capacitive power supplies with special emphasis in automotive applications for severe ambient conditions.

Benefits

· Approvals: ENEC, UL, cUL, CQC Rated voltage: 310 VAC 50/60 Hz Capacitance range: 0.1 – 15.0 μF • Lead spacing: 15.0 - 37.5 mm

• Capacitance tolerance: ±20%, ±10%

Climatic category: 40/125/56, IEC 60068-1

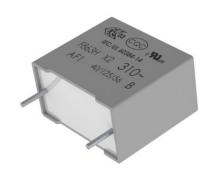
Tape & Reel in accordance with IEC 60286-2

RoHS compliant and lead-free terminations

• Operating temperature range of -40°C to +125°C

100% screening factory test at 1,900 VDC

Automotive (AEC-Q200) grade



Simulator Tool and Lifetime Expectancy model available online: K-SIM

K-LEM

Part Number System

F	863	В	С	104	M	310	C	V047
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging	C-Spec
F = Film	X2, Metallized Polypropylene	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.	K = ±10% M = ±20%	310	See Ordering Options Table	V047 = F863H series



Ordering Options Table

Lead Spacing Nominal (mm)	Type of Leads and Packaging	Lead Length (mm)	Lead and Packaging Code
	Standard Lead and Packaging Options		
	Pizza Pack	4 +2/-0	Z
	Ammo Pack	$H_0 = 18.5 \pm 0.5$	R
15	Other Lead and Packaging Options		
	Bulk - Short Leads	4 +2/-0	С
	Bulk - Long Leads	30 +5/-0	ALW0L
	Tape & Reel (Standard Reel)	$H_0 = 18.5 \pm 0.5$	L
	Tape & Reel (Large Reel)	$H_0 = 18.5 \pm 0.5$	Р
	Standard Lead and Packaging Options		
	Pizza Pack ¹	4 +2/-0	Z
	Ammo Pack ²	$H_0 = 18.5 \pm 0.5$	R
22.5	Other Lead and Packaging Options		
	Bulk – Short Leads ³	4 +2/-0	С
	Bulk – Long Leads	30 +5/-0	ALW0L
	Tape & Reel (Standard Reel)	$H_0 = 18.5 \pm 0.5$	L
	Tape & Reel (Large Reel)	$H_0 = 18.5 \pm 0.5$	Р
	Standard Lead and Packaging Options		
27.5	Tray – Long Leads	30 +5/-0	ALW0L
37.5	Other Lead and Packaging Options		
	Tray - Short Leads	4 +2/-0	Z

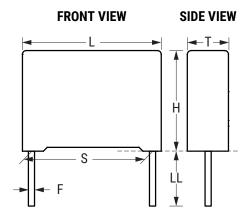
¹ Only for dimensions > $7 \times 16 \times 26.5 \text{ mm}$

² Only for dimensions \leq 11 x 20 x 26.5 mm

³ Only for dimensions \leq 7 x 16 x 26.5 mm



Dimensions - Millimeters



Size Code		S		Т		Н			F	
Size Code	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
ВС	15.0	±0.4	5.0	+0.2/-0.5	11.0	+0.1/-0.5	18.0	+0.3/-0.5	0.6	±0.05
BF	15.0	±0.4	6.0	+0.2/-0.5	12.0	+0.1/-0.5	18.0	+0.3/-0.5	0.6	±0.05
BK	15.0	±0.4	7.5	+0.2/-0.5	13.5	+0.1/-0.5	18.0	+0.5/-0.5	0.6	±0.05
BN	15.0	±0.4	8.5	+0.2/-0.5	14.5	+0.1/-0.5	18.0	+0.5/-0.5	0.6	±0.05
BS	15.0	±0.4	10.0	+0.2/-0.5	16.0	+0.1/-0.5	18.0	+0.5/-0.5	0.8	±0.05
BW	15.0	±0.4	11.0	+0.2/-0.5	19.0	+0.1/-0.5	18.0	+0.5/-0.5	0.8	±0.05
DC	22.5	±0.4	6.0	+0.2/-0.5	15.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
DE	22.5	±0.4	7.0	+0.2/-0.5	16.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
DL	22.5	±0.4	8.5	+0.2/-0.5	17.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
DN	22.5	±0.4	10.0	+0.2/-0.5	18.5	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
DS	22.5	±0.4	11.0	+0.2/-0.5	20.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
DV	22.5	±0.4	13.0	+0.2/-0.5	22.0	+0.1/-0.5	26.5	+0.3/-0.5	0.8	±0.05
FD	27.5	±0.4	9.0	+0.2/-0.7	17.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
FF	27.5	±0.4	11.0	+0.2/-0.7	20.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
FJ	27.5	±0.4	13.0	+0.2/-0.7	22.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
FL	27.5	±0.4	13.0	+0.2/-0.7	25.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
FP	27.5	±0.4	14.0	+0.2/-0.7	28.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
FU	27.5	±0.4	18.0	+0.2/-0.7	33.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
FW	27.5	±0.4	22.0	+0.2/-0.7	37.0	+0.1/-0.7	32.0	+0.3/-0.7	0.8	±0.05
RE	37.5	±0.4	11.0	+0.3/-0.7	22.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
RG	37.5	±0.4	13.0	+0.3/-0.7	24.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
RJ	37.5	±0.4	16.0	+0.3/-0.7	28.5	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
RL	37.5	±0.4	19.0	+0.3/-0.7	32.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
RQ	37.5	±0.4	20.0	+0.3/-0.7	40.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
RR	37.5	±0.4	24.0	+0.3/-0.7	44.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
RT	37.5	±0.4	30.0	+0.3/-0.7	45.0	+0.1/-0.7	41.5	+0.3/-0.7	1.0	±0.05
			Note: See th	e Ordering Opti	ons Table for l	ead length (LL/	H₀) options.			



Qualification

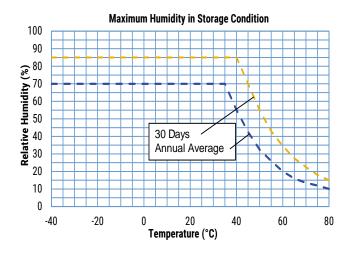
Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC-Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics Council and AEC-Q200, please visit the website at www.aecouncil.com.

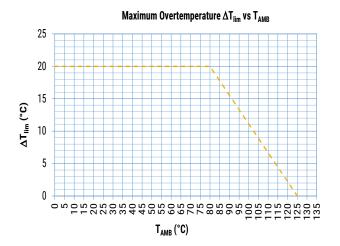
Performance Characteristics

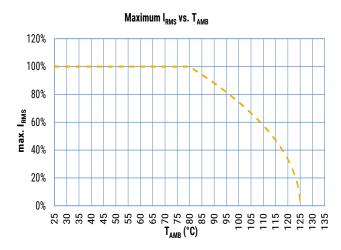
Rated Voltage	310 VAC 50/60 Hz							
Capacitance Range	0.1 - 15.0 μF							
Capacitance Tolerance	±20%, ±10%							
Temperature Range	-40°C to +125°C							
Climatic Category	40/125/56							
Storage Conditions	Average relative humidi RH ≤ 85% for 30 days ra Dew is absent	ths from the date marked of ty per year ≤ 70% ndomly distributed through C (see "Maximum Humidity	out the year	•	raph below)			
Approvals	ENEC, UL, cUL, CQC							
		Maximum Val	ues at +23°C					
Dissipation Factor	C ≤ 0.1 µF			C > 0.1 μF				
	1 kHz	0.3%			0.2%			
Test Voltage Between Terminals	the requirements in app after the test. It's not pe	tory test is carried out at 1, licable equipment standard ermitted to repeat this Test uch case for any failures	ds. All electric	cal character	ristics are checked			
Reliability	Ope	rational life 100,000 hours	at 85°C; 2,00	0 hours at 12	25°C			
		Measured at +25°C ±5°C, a	according to I	EC 60384-2				
		Minimum Values B	etween Termi	nals				
Insulation Resistance	Voltage Charge	Voltage Charge time	C ≤ 0.3	33 μF	C > 0.33 µF			
	100 VDC	1 minute	≥ 3 • 10) ⁴ MΩ	≥ 10,000 MΩ • µF			
In DC Applications	Recommended voltage	≤ 630 VDC						



Performance Characteristics cont.



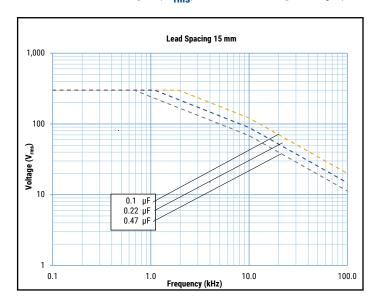


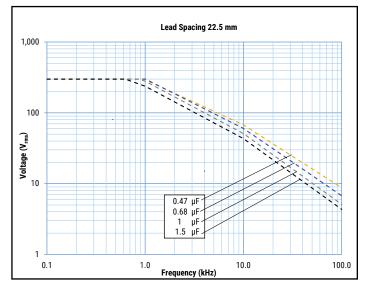


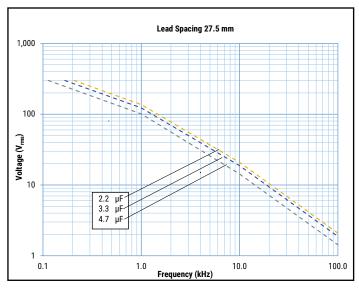
 T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C.

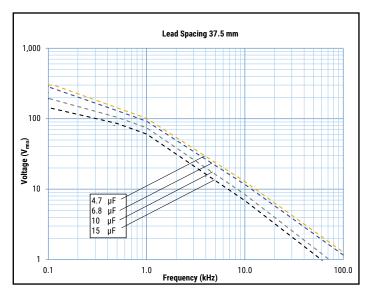


Maximum Voltage (V_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 80°C)





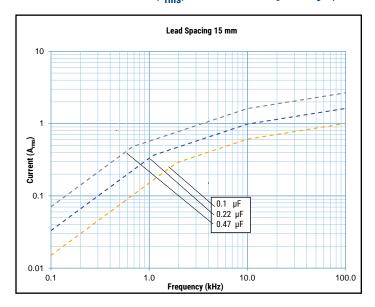


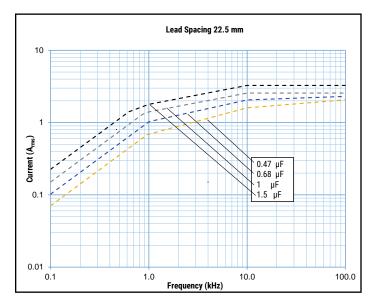


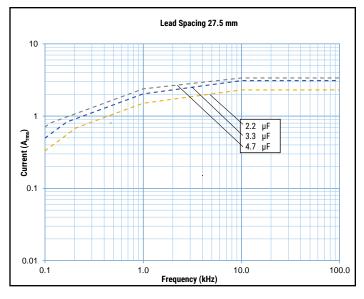
All the curves are evaluated in accordance to the datasheet declarations and considering an environmental condition as Dry Condition. If your environment is too harsh in terms of temperature and relative humidity, please contact KEMET for any kind of information.

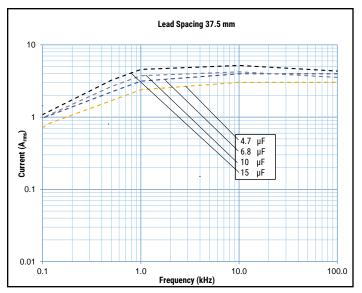


Maximum Current (I_{rms}) Versus Frequency (Sinusoidal Waveform/Th ≤ 80°C)





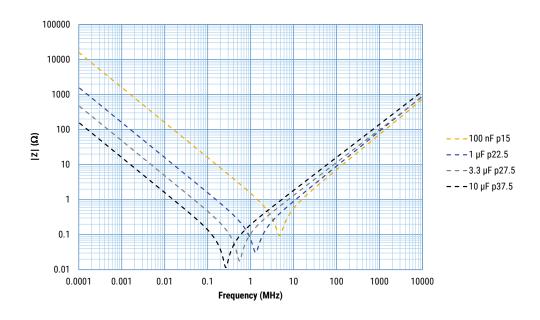




All the curves are evaluated in accordance to the datasheet declarations and considering an environmental condition as Dry Condition. If your environment is too harsh in terms of temperature and relative humidity, please contact KEMET for any kind of information.



Impedance Graph



Typical Values

Environmental Test Data

Test	Publication	Procedure
Endurance	IEC 60384-14	$1.25\mathrm{x}\mathrm{V_R}$ 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/s²
Bump	IEC 60068-2-29 Test Eb	1,000 bumps at 390 m/s ²
Temperature Cycling	JESD22-MethodJA-104	1,000 cycles, the 1,000 cycles will be at upper and lower rated temperature. Note: Measurement at 24±4 hours after test conclusion. 30 minute maximum dwell time at each temperature extreme. 1 minute maximum transition time.
Active Flammability	IEC 60384-14	V _R +20 surge pulses at 2.5 kV (pulse every 5 seconds)
Passive Flammability	IEC 60384-14	IEC 60384-1, IEC 60695-11-5 Needle-flame test
Biased Humidity	MIL-STD-202 Method 103	1,000 hours 40°C/93%RH. Rated Voltage. Measurement at 24 ±2 hours after test conclusion.
Biased Humidity	According to Grade IIB	85°C, 85% RH and 310 VAC, 500 hours Capacitance change (Δ C/C): \leq 10% Dissipation factor change (Δ tanδ): \leq 150 * 10–4 (at 1 kHz for Cap > 1 μ F) Dissipation factor change (Δ tanδ): \leq 240 * 10–4 (at 10 kHz for Cap \leq 1 μ F) IR \geq 50% of initial limit or minimum 200 M Ω



Approvals

Certification Body	Mark	Specification	File Number	
IMQ S.p.A.		EN/IEC 60384-14	CA08.00293	
UL	c FL us	UL 60384-14 and CAN/CSA-E60384-14	E97797	
cqc	Cec	IEC 60384-14	CQC15001128630 CQC15001128703 CQC15001128705	

Environmental Compliance

All new KEMET EMI capacitors are RoHS compliant.



Table 1 - Ratings & Part Number Reference

Capacitance	Size Code	Dim	ensions in	mm	Lood Crosing (C)	dV/dt	Part Number
Value (µF)	Size Code	T	Н	L	Lead Spacing (S)	(V/µs)	Part Number
0.1	BC	5.0	11.0	18.0	15.0	400	F863BC104(1)310(2)V047
0.15	BF	6.0	12.0	18.0	15.0	400	F863BF154(1)310(2)V047
0.22	BK	7.5	13.5	18.0	15.0	400	F863BK224(1)310(2)V047
0.33	BN	8.5	14.5	18.0	15.0	400	F863BN334(1)310(2)V047
0.47	BW	11.0	19.0	18.0	15.0	400	F863BW474(1)310(2)V047
0.47	DE	7.0	16.0	26.5	22.5	200	F863DE474(1)310(2)V047
0.68	DN	10.0	18.5	26.5	22.5	200	F863DN684(1)310(2)V047
1.0	DS	11.0	20.0	26.5	22.5	200	F863DS105(1)310(2)V047
1.5	DV	13.0	22.0	26.5	22.5	200	F863DV155(1)310(2)V047
2.2	FL	13.0	25.0	32.0	27.5	150	F863FL225(1)310(2)V047
3.3	FU	18.0	33.0	32.0	27.5	150	F863FU335(1)310(2)V047
4.7	FW	22.0	37.0	32.0	27.5	150	F863FW475(1)310(2)V047
4.7	RL	19.0	32.0	41.5	37.5	100	F863RL475(1)310(2)V047
6.8	RR	24.0	44.0	41.5	37.5	100	F863RR685(1)310(2)V047
10.0	RT	30.0	45.0	41.5	37.5	100	F863RT106(1)310(2)V047
15.0	RT	30.0	45.0	41.5	37.5	100	F863RT156M310(2)V047
Capacitance Value (µF)	Size Code	T (mm)	H (mm)	L (mm)	Lead Spacing (S)	dV/dt (V/μs)	Part Number

⁽¹⁾ $M = \pm 20\%$, $K = \pm 10\%$.

⁽²⁾ Insert lead and packaging code. See Ordering Options Table for available options.



Soldering Process

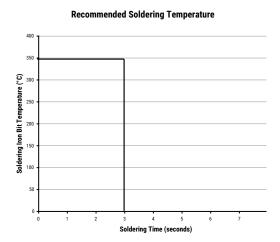
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 – 221°C for the new alloys. As a result, the heat stress to the components, even in wave soldering, has increased considerably due to higher pre-heat and wave temperatures. Polypropylene capacitors are especially sensitive to heat (the melting point of polypropylene is 160 – 170°C). Wave soldering can be destructive, especially for mechanically small polypropylene capacitors (with lead spacing of 5 – 15 mm), and great care has to be taken during soldering. The recommended solder profiles from KEMET should be used. Please consult KEMET with any questions. In general, the wave soldering curve from IEC Publication 61760–1 Edition 2 serves as a solid quideline for successful soldering. Please see Figure 1.

Reflow soldering is not recommended for through-hole film capacitors. Exposing capacitors to a soldering profile in excess of the above-recommended limits may result to degradation of or permanent damage to the capacitors.

Do not place the polypropylene capacitor through an adhesive curing oven to cure resin for surface mount components. Insert through-hole parts after curing surface mount parts. Consult KEMET to discuss the actual temperature profile in the oven, if through-hole components must pass through the adhesive curing process. A maximum two soldering cycles is recommended. Allow time for the capacitor surface temperature to return to normal temperature before performing the second soldering cycle.

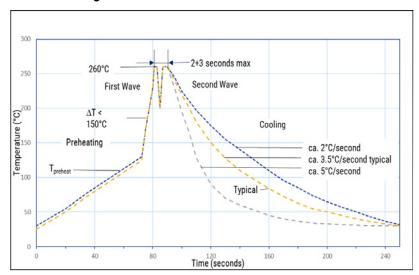
Manual Soldering Recommendations

Following is the recommendation for manual soldering with a soldering iron.



The soldering iron tip temperature should be set at 350°C (+10°C maximum), with the soldering duration not to exceed more than 3 seconds.

Wave Soldering Recommendations





Soldering Process cont.

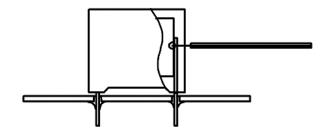
Wave Soldering Recommendations cont.

1. The table indicates the maximum set-up temperature of the soldering process. Figure 1

Dielectric Film Material	Maximum Preho	eat Temperature	Maximum Peak Soldering Temperature			
	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm	Capacitor Pitch ≤ 15 mm	Capacitor Pitch > 15 mm		
Polyester	130°C	130°C	270°C	270°C		
Polypropylene	125°C	130°C	260°C	270°C		
Paper	130°C	140°C	270°C	270°C		
Polyphenylene Sulphide	150°C	160°C	270°C	270°C		

The maximum temperature measured inside the capacitor:Set the temperature so that the maximum temperature inside the element is below the limit.

Dielectric Film Material	Maximum Temperature Measured Inside the Element
Polyester	160°C
Polypropylene	125°C
Paper	160°C
Polyphenylene sulphide	160°C



Temperature monitored inside the capacitor.

Selective Soldering Recommendations

Selective dip soldering is a variation of reflow soldering. In this method, the printed circuit board with through-hole components to be soldered is preheated and transported over the solder bath as it is in normal flow soldering, without touching the solder. When the board is over the bath, it is stopped. Pre-designed solder pots are lifted from the bath with molten solder, only at the places of the selected components, and pressed against the lower surface of the board to solder the components.

The temperature profile for selective soldering is similar to the double wave flow soldering outlined in this document. **However, instead of two baths, there is only one with a time from 3 – 10 seconds**. In selective soldering, the risk of overheating is greater than in double wave flow soldering, and great care must be taken so that the parts do not overheat.



Mounting

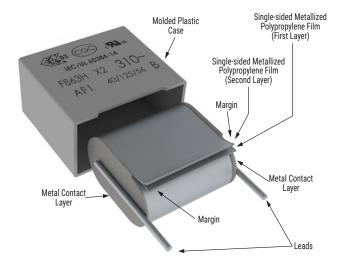
Resistance to Vibration and Mechanical Shock

AEC-Q200 Rev. E Mechanical Stress Tests:

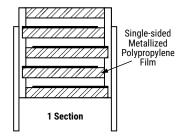
Mechanical Shock	MIL-SDT-202 Method 213	Figure 1 of Method 213 • THT: Condition C • SMD: Condition C • Tested per the Supplier's recommended mounting method
Vibration	MIL-SDT-202 Method 204	 5 g for 20 minutes, 12 cycles each of 3 orientations Tested per the Supplier's recommended mounting method Verification of transfer load: during setup, verify that with the selected PCB design (size, thickness and secure points), or an alternative mount, that the transferred load onto the component corresponds to the requested load. This verification can be achieved using a laser vibrometer or other adequate measuring device Test from 10 Hz - 2,000 Hz.

The capacitors are designed for PCB mounting. The stand-off pipes must be in good contact with the printed circuit board. The capacitor body has to be properly fixed (e.g. clamped or glued).

Construction

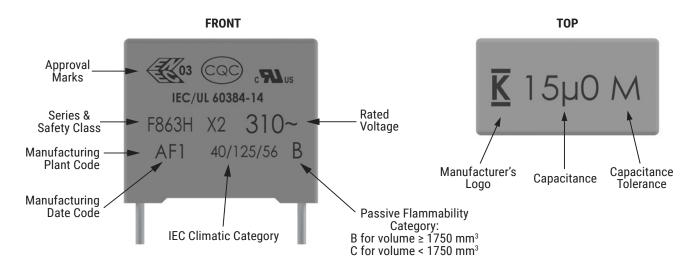


Winding Scheme

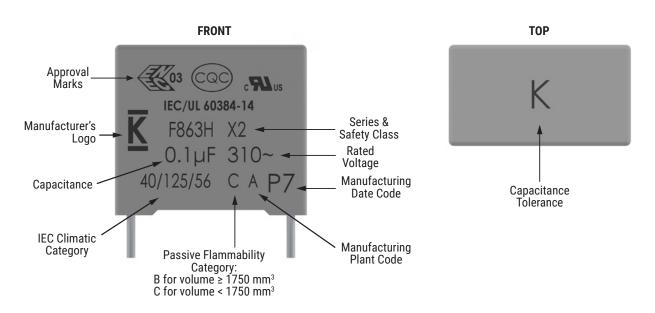




Marking



OR



Slight change in the layout can be possible but this does not affect the content of the information of the current marking.

This change will be achieved without impact to product form, fit or function, as the products are equivalent with respect to physical, mechanical, quality and reliability characteristics.



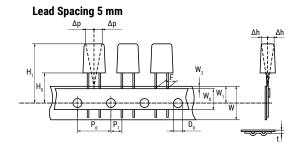
	Manufacturing Date Code (IEC 60062)										
Year Code Year Code Year Code Month Code Month											
2020	М	2027	V	2034	Е	January	1	July	7		
2021	N	2028	W	2035	F	February	2	August	8		
2022	Р	2029	Χ	2036	G	March	3	September	9		
2023	R	2030	Α	2037	Н	April	4	October	0		
2024	S	2031	В	2038	K	May	5	November	N		
2025	T	2032	С	2039	L	June	6	December	D		
2026	U	2033	D	2040	М						

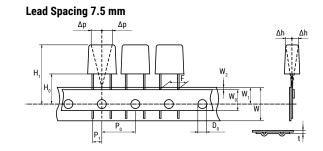
Packaging Quantities

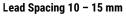
Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Tray – Short Leads	Tray - Long Leads	Standard Reel (355 mm)	Large Reel (500 mm)	Ammo	Pizza
ВС		5	11	18	2,000	1,000			600	1,250	800	1,122
BF		6	12	18	1,750	900			500	1,000	680	935
BK		7.5	13.5	18	1,000	700			350	800	500	748
BN	15	8.5	14.5	18	1,000	500			300	700	440	663
BT		9	12.5	18	1,000	520			270	650	410	612
BS		10	16	18	750	500				600	380	561
BW		11	19	18	450	350				500	340	510
DC		6	15	26.5	805	500		1	300	700	464	660
DE		7	16	26.5	700	500			250	550	380	564
DL		8.5	17	26.5	700	300			250	450	280	468
DN	22.5	10	18.5	26.5		300			160	350	235	396
DS	-	11	20	26.5		250			190	350	217	360
DV	-	13	22	26.5		200			130	300	217	300
DV		13		20.3		200			130	300		300
FD		9.0	17.0	32.0			816	408				
FF		11.0	20.0	32.0			560	336				
FJ		13.0	22.0	32.0			480	288				
FL	27.5	13.0	25.0	32.0			480	288				
FP		14.0	28.0	32.0			352	176				
FU		18.0	33.0	32.0			256	128				
FW		22.0	37.0	32.0			168	112				
		44.0	00.0	44.5			400	0.50				
RE		11.0	22.0	41.5			420	252				
RG		13.0	24.0	41.5			360	216				
RJ	07.5	16.0	28.5	41.5			216	108				
RL	37.5	19.0	32.0	41.5			192	96				
RQ		20.0	40.0	41.5			126	84				
RR		24.0	44.0	41.5			108	72				
RT		30.0	45.0	41.5			90	60				

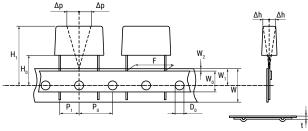


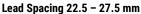
Lead Taping & Packaging (IEC 60286-2)

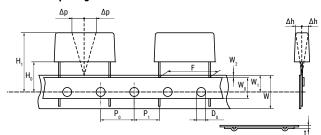












Taping Specification

	Standard IEC 60286-2								
Lead Spacing	+0.6/-0.1	F	5.0	7.5	10.0	15.0	22.5	27.5	F
Carrier Tape Width	+1/-0.5	W	18.0	18.0	18.0	18.0	18.0	18.0	18+1/-0.5
Hold-Down Tape Width	Minimum	W _o	6.0	6.0	9.0	10.0	10.0	10.0	
Position of Sprocket Hole	±0.5	W ₁	9.0	9.0	9.0	9.0	9.0	9.0	9+0.75/-0.5
Distance Between Tapes	Maximum	W ₂	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Sprocket Hole Diameter	±0.2	D ₀	4.0	4.0	4.0	4.0	4.0	4.0	4.0
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	Maximum	Δр	1.3	1.3	1.3	1.3	1.3	1.3	1.3
Lateral Deviation	±2	Δh	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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+2/-0					

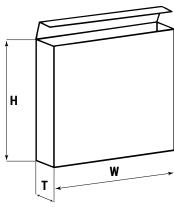
- (1) Maximum cumulative feed hole error, 1 mm per 20 parts.
- (2) 16.5 mm available on request.
- (3) 15 mm available on request ($F \ge 10$ mm).



Lead Taping & Packaging (IEC 60286-2) cont.

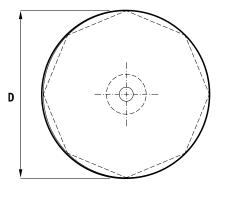
Ammo Specifications

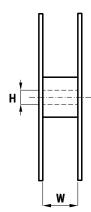
Series	Dimensions (mm)					
Series	Н	W	Т			
F5A, F5B, F5D	360	340	59			
F6xx, F8xx	300	340	39			
PHExxx, PMExxx, PMRxxx	330	330	50			



Reel Specifications

Series	Dimensions (mm)					
Series	D	Н	W			
F5A, F5B, F5D	355 500	30	EE (Mov)			
F6xx, F8xx		25	55 (Max)			
PHExxx, PMExxx, PMRxxx	360 500	30	46 (Max)			







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Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated or that other measures may not be required.

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