Metallized Polypropylene Film EMI Suppression Capacitors for Harsh Environmental Conditions – F863, Class X2, 310 VAC (Automotive Grade)

Overview

The F863 is constructed of metallized polypropylene film, encapsulated with self-extinguishing resin in a box material recognized by UL 94 V-0. The F863 is ideal for harsh environmental conditions and meets the demanding Automotive Electronics Council's AEC-Q200 qualification requirements.

Applications

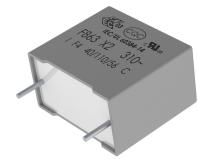
Typical applications include parallel connection and in series with the mains for indoor application, capacitive power supplies with special emphasis in automotive applications for severe ambient conditions.

Benefits

- Approvals: ENEC, UL, cUL, CQC
- Rated voltage: 310 VAC 50/60 Hz
- Capacitance range: 0.1 10.0 μF
- Lead spacing: 15.0 37.5 mm
- Capacitance tolerance: ±20%, ±10%
- Climatic category: 40/110/56, IEC 60068-1
- Tape & Reel in accordance with IEC 60286-2
- RoHS Compliant and lead-free terminations
- Operating temperature range of -40°C to +110°C
- 100% screening factory test at 1,900 VDC
- Qualification based on AEC-Q200 guidelines

Part Number System

F	863	В	С	104	М	310	С
Capacitor Class	Series	Lead Spacing (mm)	Size Code	Capacitance Code (pF)	Capacitance Tolerance	Voltage (VAC)	Packaging
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





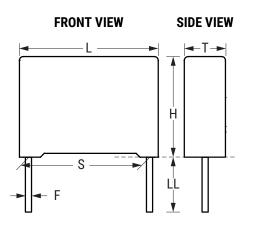


Ordering Options Table

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	C
	Bulk – Long Leads	30 +5/-0	ALWOL
	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	4 +2/-0	Z
	Ammo Pack	$H_0 = 18.5 \pm 0.5$	R
22.5	AIIIIIU F dCK	$\Pi_0 = 10.3 \pm 0.3$	N
22.5	Other Lead and Packaging Options	H ₀ - 10.3 ±0.3	K
22.5		30 +5/-0	ALWOL
22.5	Other Lead and Packaging Options		
22.5	Other Lead and Packaging Options Bulk – Long Leads	30 +5/-0	ALWOL
22.5	Other Lead and Packaging Options Bulk – Long Leads Tape & Reel (Standard Reel) Tape & Reel (Large Reel)	30 +5/-0 H _o = 18.5 ±0.5	ALW0L L
22.5	Other Lead and Packaging Options Bulk – Long Leads Tape & Reel (Standard Reel)	30 +5/-0 H _o = 18.5 ±0.5	ALW0L L
22.5	Other Lead and Packaging Options Bulk – Long Leads Tape & Reel (Standard Reel) Tape & Reel (Large Reel)	30 +5/-0 H _o = 18.5 ±0.5	ALW0L L
	Other Lead and Packaging Options Bulk – Long Leads Tape & Reel (Standard Reel) Tape & Reel (Large Reel) Standard Lead and Packaging Options	30 +5/-0 H ₀ = 18.5 ±0.5 H ₀ = 18.5 ±0.5	ALWOL L P



Dimensions – Millimeters



Size Code	9	5	Т		Н		L		F	
Size Code	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance
BC	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
ВК	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
BT	15.0	±0.4	9.0	+0.2/-0.5	12.5	+0.1/-0.5	18.0	+0.5/-0.5	0.6	±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 the	e Ordering Opti	ons Table for l	ead length (LL/	H₀) options.			



Qualification

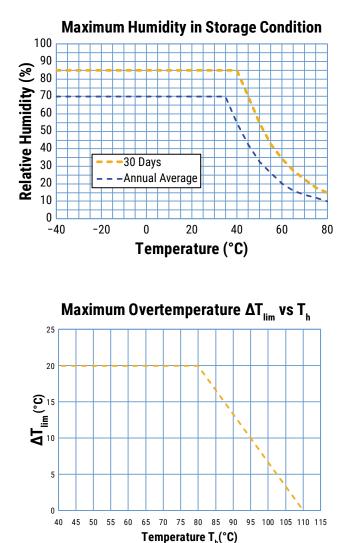
Automotive Grade products meet or exceed the requirements outlined by the Automotive Electronics Council. Details regarding test methods and conditions are referenced in document AEC-Q200, Stress Test Qualification for Passive Components. For additional information regarding the Automotive Electronics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

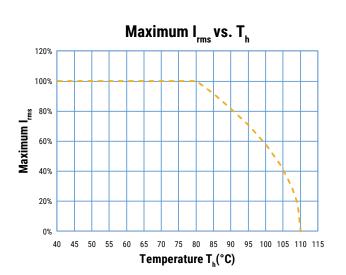
Performance Characteristics

Rated Voltage	310 VAC 50/60 Hz					
Capacitance Range	0.1 - 10.0 μF					
Capacitance Tolerance	±20%, ±10%					
Temperature Range	-40°C to +110°C					
Climatic Category	40/110/56					
Storage Conditions	Storage time: ≤ 24 months from the date marked on the label package Average relative humidity per year ≤ 70% RH ≤ 85% for 30 days randomly distributed throughout the year Dew is absent Temperature: -40 to 80°C (see "Maximum Humidity in Storage Conditions" graph below)					
Approvals	ENEC, UL, cUL, CQC					
	Maximum Values at +23°C					
Dissipation Factor		C ≤ 0.1 µF	C > 0.1 μF			
	1 kHz	0.3%	0.2%			
Test Voltage Between Terminals	voltage level is select equipment standards after the test. It is no	factory test is carried o ted to meet the requirer s. All electrical characte t permitted to repeat th he capacitor. KEMET is	ments in applicable eristics are checked is test as there is			
	Minim	um Values Between Teri	minals			
Insulation Resistance	C ≤ 0.33 µF	≥ 30,00	00 ΜΩ			
	C > 0.33 µF	≥ 10,000 MΩ • μF				
In DC Applications	Recommended volta	ge ≤ 630 VDC				



Performance Characteristics cont.

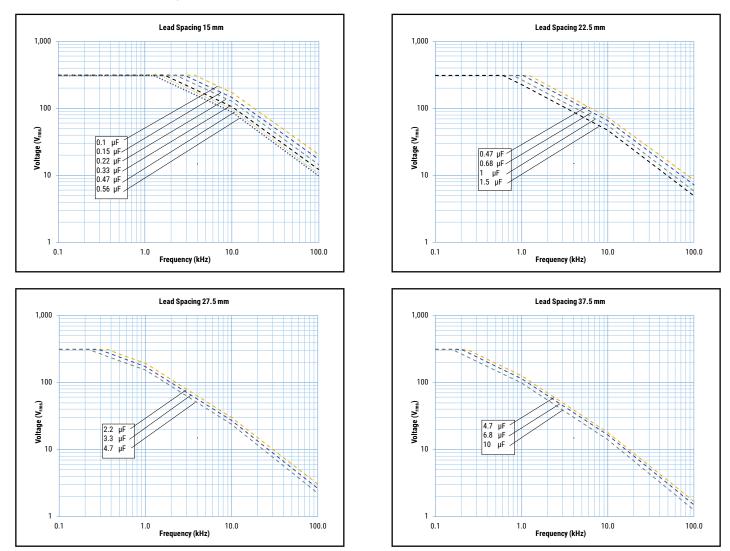




 T_h is the maximum ambient temperature surrounding the capacitor or hottest contact point (e.g. tracks), whichever is higher, in the worst operation conditions in °C.



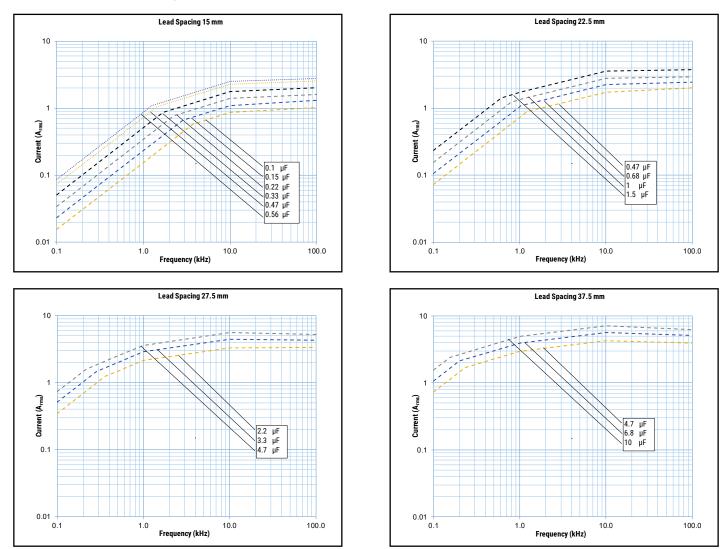
Maximum Voltage (V_{rms}) Versus Frequency (Sinusoidal Waveform/Th \leq 80°C)



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.



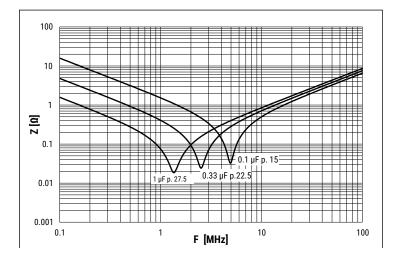
Maximum Current (A_{rms}) Versus Frequency (Sinusoidal Waveform/Th \leq 80°C)



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



Environmental Test Data

Test	Publication	Procedure
Endurance	IEC 60384-14	$1.25 \mbox{ x V}_{\rm R}$ 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
Temperature Cycling	JESD22-MethodJA-104	1,000 cycles (-55°C to 85°C) Note: If 100°C or 125°C part the 1,000 cycles will be at that temperature rating. 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.
THB Test		85°C, 85% RH and 240 VAC, 500 hours Capacitance change (Δ C/C): ≤ 10% Dissipation factor change (Δ tan δ): ≤ 5 * 10 ⁻³ (at 1 kHz) Insulation resistance Rins or time constant τ = CR Rins: ≥ 50% of initial limit



Approvals

Certification Body	Mark	Specification	File Number
IMQ S.p.A.	EX.	EN/IEC 60384-14	CA08.00209
UL	c FL us	UL 60384-14 and CAN/CSA-E60384-14	E97797
CQC	Cec	IEC 60384-14	CQC15001128240 CQC15001128444 CQC15001128445 CQC15001128446 CQC15001128447

Environmental Compliance

All new KEMET EMI capacitors are RoHS compliant.



Table 1 – Ratings & Part Number Reference

Capacitance	Size Code	Dimensions in mm			Lood Specing (p)	dV/dt	Part Number
Value (µF)	Size Code	В	Н	L	Lead Spacing (p)	(V/µs)	Part Number
0.1	BC	5.0	11.0	18.0	15.0	400	F863BC104(1)310(2)
0.15	BF	6.0	12.0	18.0	15.0	400	F863BF154(1)310(2)
0.22	BK	7.5	13.5	18.0	15.0	400	F863BK224(1)310(2)
0.33	BN	8.5	14.5	18.0	15.0	400	F863BN334(1)310(2)
0.47	BW	11.0	19.0	18.0	15.0	400	F863BW474(1)310(2)
0.56	BW	11.0	19.0	18.0	15.0	400	F863BW564(1)310(2)
0.47	DE	7.0	16.0	26.5	22.5	200	F863DE474(1)310(2)
0.68	DN	10.0	18.5	26.5	22.5	200	F863DN684(1)310(2)
1.0	DS	11.0	20.0	26.5	22.5	200	F863DS105(1)310(2)
1.5	DV	13.0	22.0	26.5	22.5	200	F863DV155(1)310(2)
2.2	FL	13.0	25.0	32.0	27.5	150	F863FL225(1)310(2)
3.3	FU	18.0	33.0	32.0	27.5	150	F863FU335(1)310(2)
4.7	FW	22.0	37.0	32.0	27.5	150	F863FW475(1)310(2)
4.7	RL	19.0	32.0	41.5	37.5	100	F863RL475(1)310(2)
6.8	RR	24.0	44.0	41.5	37.5	100	F863RR685(1)310(2)
10.0	RT	30.0	45.0	41.5	37.5	100	F863RT106(1)310(2)
Capacitance Value (µF)	Size Code	B (mm)	H (mm)	L (mm)	Lead Spacing (p)	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

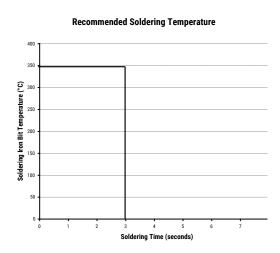
The implementation of the RoHS directive has resulted in the selection of SnAgCu (SAC) alloys or SnCu alloys as primary solder. This has increased the liquidus temperature from that of 183°C for SnPb eutectic alloy to 217 - 221°C for the new alloys. As a result, the heat stress to the components, even 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 guideline 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 the recommended limits may result to degradation 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 the curing of 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. Please allow time for the capacitor surface temperature to return to a normal temperature before the second soldering cycle.

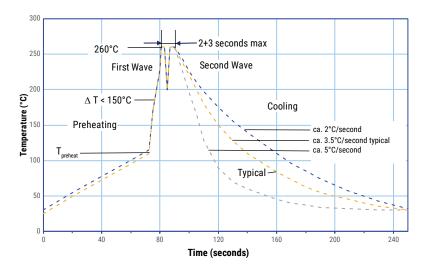
Manual Soldering Recommendations

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.

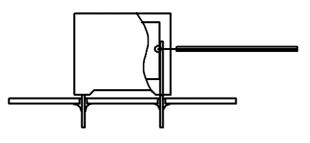
Wave Soldering Recommendations cont.

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

Dielectric	Pre	mum heat erature	Maximum Peak Soldering Temperature			
Film Material	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	110°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 inside the element the maximum temperature is below the limit:

Dielectric Film Material	Maximum Temperature Measured Inside the Element
Polyester	160°C
Polypropylene	110°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 in normal flow soldering without touching the solder. When the board is over the bath, it is stopped and 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 bath with a time from 3 to 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 are not overheated.



Mounting

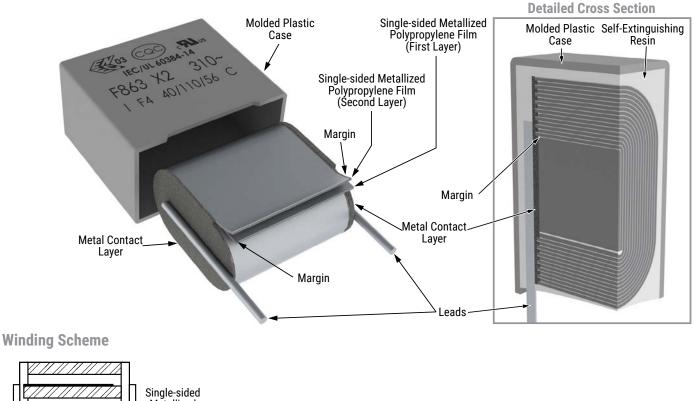
Resistance to Vibration and Mechanical Shock

AEC-Q200 Mechanical Stress Tests:

Mechanical	Shock	MIL-SDT-202 Method 213	Test condition C Peak value 100 g, duration 6 ms, half-sine-wave (see MIL-HDBK for details)
Vibratio	on	MIL-SDT-202 Method 204	5 g for 20 minutes, 12 cycles each of 3 orientations Use 8"X5" PCB, 0.031" thick. 7 secure points on one 8" side and 2 secure points at corners of opposite sides. Parts mounted within 2" from any secure point. Test from 10 – 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 capacitors with pitch \leq 22.5 mm can be mechanically fixed by the leads, for pitch > 22.5 mm, the capacitor body has to be properly fixed (e.g. clamped or glued).

Construction

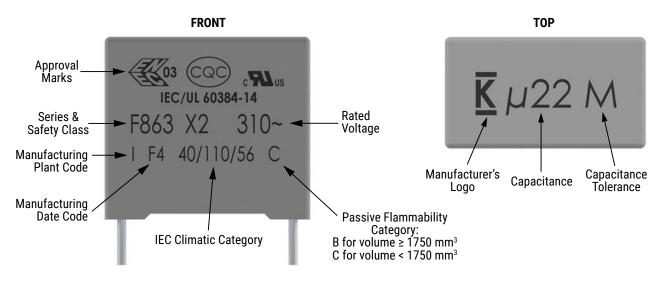


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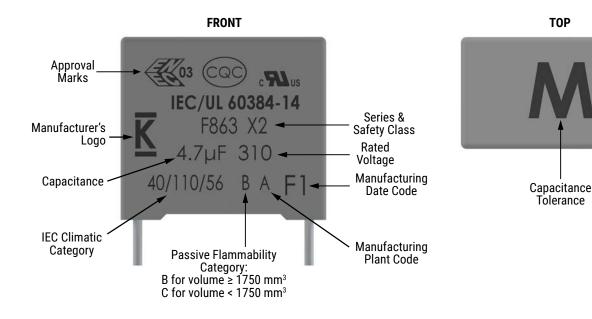
Film



Marking



OR





Manufacturing Date Code (IEC-60062)

Y = Year, Z = Month										
Year	Code	Month	Code							
2010	А	January	1							
2011	В	February	2							
2012	С	March	3							
2013	D	April	4							
2014	E	May	5							
2015	F	June	6							
2016	Н	July	7							
2017	J	August	8							
2018	K	September	9							
2019	L	October	0							
2020	М	November	N							
2021	Ν	December	D							
2022	Р									
2023	R									
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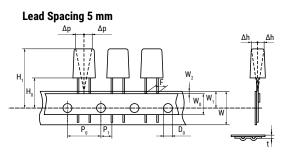


Packaging Quantities

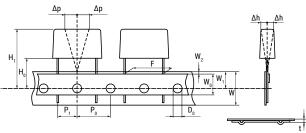
Size Code	Lead Spacing	Thickness (mm)	Height (mm)	Length (mm)	Bulk Short Leads	Bulk Long Leads	Tray – Pizza Short Leads	Tray – Pizza Long Leads	Standard Reel (355 mm)	Large Reel (500 mm)	Ammo	Pizza
BC		5	11	18	2,000	1,000			600	1,250	800	1,122
BF		6	12	18	1,750	900			500	1,000	680	935
BK		7.5	13.5	18	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
		6	15	06.5	0.05	500		1	000	700	46.4	(())
DC	-	6	15	26.5	805	500			300	700	464	660
DE	-	7	16	26.5	700	500			250	550	380	564
DL	22.5	8.5	17	26.5		300			250	450	280	468
DN	-	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		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				
								, T	, 1	·		
RE	-	11.0	22.0	41.5			420	252				
RG	-	13.0	24.0	41.5			360	216				
RJ	-	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				

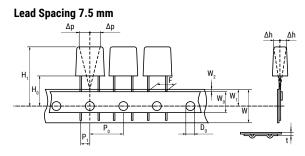


Lead Taping & Packaging (IEC 60286-2)

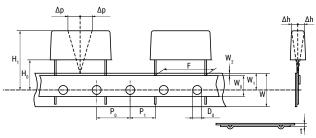


Lead Spacing 10 – 15 mm





Lead Spacing 22.5 – 27.5 mm



Taping Specification

Dimensions in mm									Standard IEC 60286-2
Lead Spacing	+0.6/-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	Minimum	W _o	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	Maximum	W ₂	3	3	3	3	3	3	3
Sprocket Hole Diameter	±0.2	D	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	Maximum	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+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).



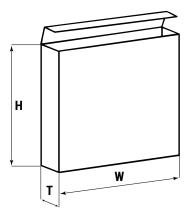
Lead Taping & Packaging (IEC 60286-2) cont.

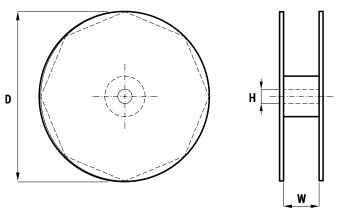
Ammo Specifications

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

Reel Specifications

Series	Dimensions (mm)				
Series	D	Н	W		
R4x, R4x+R, R7x, RSB	355 500	20	55 (maximum)		
F5A, F5B, F5D		30 25			
F6xx, F8xx	500	20			
PHExxx, PMExxx, PMRxxx	360 500	30	46 (maximum)		







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