# EMC Filters FLLE2 – S, Single Phase General Purpose Chassis Mount Filters



#### **Overview**

The FLLE2-S is a general purpose, single phase filter series with high/very high attenuation. They have a chassis mount for fast mounting and a metal case filled with selfextinguishing resin. Fast-on or screw terminals, and options with flexible wire connections are available. In addition, medical versions are available without Y-capacitors for no leakage current.

### **Applications**

Typical applications include industrial power supplies, office and business equipment, tele- and datacom equipment, household and consumer goods, and medical equipment.



#### **Technical Specifications**

ltem	Parameters/ Characteristics			
Rated Voltage	300 VAC/VDC			
Rated Frequency	50 – 60 Hz			
Rated Current	1 – 32 A			
Rated Temperature	40°C			
Temperature Range	-25°C to 100°C			
Climate Category	25/100/21			
Voltage Test	$P \rightarrow N 1,300 VDC$ P/N $\rightarrow E 2,250 VDC$			

#### Typical Electrical Schematic





#### **Technical Specifications cont.**

Part Number	Rated Current at 40°C (A)	Leakage Current* (mA)	C <sub>x</sub> 1 (μF)	R (MΩ)	L1 (mH)	C <sub>y</sub> 1 (nF)	C <sub>x</sub> 2 (μF)	L2 (mH)
FLLE2001AS(1)(2)	1	0.37	0.33	0.68	22	4.7	0.33	22
FLLE2003AS(1)(2)	3	0.37	0.47	0.47	14	4.7	0.47	14
FLLE2006AS(1)(2)	6	0.37	1	0.22	8	4.7	1	8
FLLE2010AS(1)(2)	10	0.37	1	0.22	5	4.7	1	5
FLLE2013AS(1)(2)	13	0.37	1	0.22	4	4.7	1	4
FLLE2016AS(1)(2)	16	0.37	1	0.22	4	4.7	1	4
FLLE2020AS(1)(2)	20	0.37	2.2	0.15	2	4.7	2.2	2
FLLE2025AS(1)(2)	25	0.37	2.2	0.15	2	4.7	2.2	2
FLLE2032AS(1)(2)	32	0.37	2.2	0.15	1.3	4.7	2.2	1.3

(1) D = Standard, M = Medical

(2) B = Fast-on (1-16A), I = Threaded (20-32A), D = Wire (1-32A)

\* Leakage current at 250 VAC/50 Hz according to IEC60939-3. Medical version without C<sub>v</sub>-capacitors, no leakage current.

# **Approvals**

Standard	Certification Body	File Number
IEC/EN 60939-3	UL-Demko	E490803
ANSI/UL 60939-3-2017	UL	E490803
CAN/CSA C22.2 No. 8-13	UL	E490803

### **Environmental Compliance**

KEMET EMI filters are RoHS Compliant.





# **Typical Insertion Loss**













# **Typical Insertion Loss cont.**









4



# **Mechanical Dimensions – Millimeters**



Part Number	L (mm)	W (mm)	H (mm)	Weight (g)	Fast-on Terminal	Threaded Terminal	Flexible Wire (mm²)
FLLE2001AS(1)(2)	51	45	28	130	6.3 x 0.8		0.75
FLLE2003AS(1)(2)	65	50	40	280	6.3 x 0.8		0.75
FLLE2006AS(1)(2)	91	51	45	410	6.3 x 0.8		1.5
FLLE2010AS(1)(2)	91	51	45	410	6.3 x 0.8		1.5
FLLE2013AS(1)(2)	130.5	56.5	48.5	690	6.3 x 0.8		1.5
FLLE2016AS(1)(2)	130.5	56.5	48.5	690	6.3 x 0.8		2.5

(1) D = Standard, M = Medical

(2) B = Fast-on (1-16A), I = Threaded (20-32A), D = Wire (1-32A)



# **Mechanical Dimensions – Millimeters cont.**



Part Number	L (mm)	W (mm)	H (mm)	Weight (g)	Fast-on Terminal	Threaded Terminal	Flexible Wire (mm²)
FLLE2020AS(1)(2)	130.5	56.5	48.5	720		M4 x 0.7	2.5
FLLE2025AS(1)(2)	130.5	56.5	48.5	720		M4 x 0.7	2.5
FLLE2032AS(1)(2)	130.5	56.5	48.5	800		M4 x 0.7	4

(1) D = Standard, M = Medical

(2) B = Fast-on (1-16A), I = Threaded (20-32A), D = Wire (1-32A



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7