

Overview

Feed-through filter range using film capacitor technology to achieve good temperature stability. The units are housed in robust, sealed metal cases of threaded construction, and offer a range of terminal finishes.

- Capacitive values from 100 – 820 nF
- Self-healing capacitors
- Wide choice of performance options
- Superior pulse current capability
- Excellent temperature stability
- Wire or tag termination options

Technical Specifications

Item	Parameters/ Characteristics
Rated Voltage	115 – 125 VAC 100 – 300 VDC
Rated Frequency	400 Hz
Rated Current	1 – 10 A
Rated Temperature	40°C
Temperature range	-55°C to 125°C
Climate Category	55/125/56
Voltage Test	160 - 560 VDC

Applications

Specifically designed for military, industrial, telecoms and medical applications, but especially suitable for use where fast rising transients are expected.



Typical Electrical Schematic



Алматы (7273)495-231
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
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Вологда (8172)26-41-59
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Екатеринбург (343)384-55-89

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Пермь (342)205-81-47

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Тюмень (3452)66-21-18
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Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Technical Specifications cont.

Part Number	C (nF)	Rated Current at 40°C (A)	Rated Voltage (VDC/VAC)	RDC (mΩ)	Pulse Capability (V/μs)	CCT
AFCL100322LJ(1)(*)(2)	220	10	350/125	6	600	1
AFCL100347JJ(1)(*)(2)	470	10	250/-	6	600	1
AFCL100382DJ(1)(*)(2)	820	10	100/-	6	490	1
AFCL100310LJ(1)(#)(2)	100	10	350/125	6	800	1
AFCL100322JJ(1)(#)(2)	220	10	250/-	6	700	1
AFCL100347DJ(1)(#)(2)	470	10	100/-	6	600	1
AFCL100347DH(1)(*)(2)	470	5	100/-	15	600	1
AFCL100347DG(1)(*)(2)	470	3	100/-	40	600	2
AFCL100347DF(1)(*)(2)	470	1	100/-	200	600	2
AFCL100322JH(1)(*)(2)	220	5	250/-	15	700	2
AFCL100322JG(1)(*)(2)	220	3	250/-	40	700	2
AFCL100322JF(1)(*)(2)	220	1	250/-	200	700	2
AFCL100310LH(1)(*)(2)	100	5	350/115	15	800	2
AFCL100310LG(1)(*)(2)	100	3	350/115	40	800	2
AFCL100310LF(1)(*)(2)	100	1	350/115	200	800	2

(1) Termination: W = Wire
T = Tag

(2) Case finish: T = Tin plated
S = Silver plated

(*) Thread Length 1 = 4.95 mm
2 = 8 mm

(#) Thread Length: 3 = 4.95 mm
4 = 8 mm

Environmental Compliance

KEMET EMI filters are RoHS Compliant.



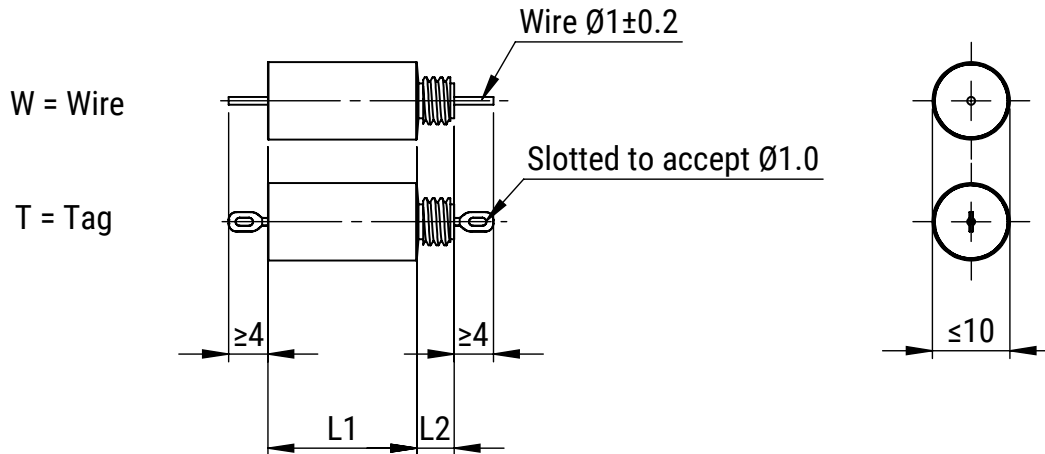
Typical Insertion Loss

Part Number	0.1 MHz (dB)	0.3 MHz (dB)	1 MHz (dB)	10 MHz (dB)	100 MHz (dB)	400 MHz (dB)
AFCL100322LJ-(*)-	9	19	28	46	49	68
AFCL100347JJ-(*)-	11	22	35	48	49	68
AFCL100382DJ-(*)-	22	30	41	46	53	68
AFCL100310LJ-(#)-	-	11	22	40	48	63
AFCL100322JJ-(#)-	-	18	28	46	49	68
AFCL100347DJ-(#)-	11	22	35	48	49	68
AFCL100347DH-(*)-	16	26	38	58	61	68
AFCL100347DG-(*)-	16	27	41	63	63	68
AFCL100347DF-(*)-	26	39	53	65	63	68
AFCL100322JH-(*)-	11	20	30	53	57	63
AFCL100322JG-(*)-	12	23	37	64	62	68
AFCL100322JF-(*)-	20	31	49	70	55	68
AFCL100310LH-(*)-	-	13	25	47	57	68
AFCL100310LG-(*)-	-	16	29	55	61	68
AFCL100310LF-(*)-	14	27	43	61	63	68

(*) Thread Length 1 = 4.95 mm
2 = 8 mm

(#) Thread Length: 3 = 4.95 mm
4 = 8 mm

Mechanical Dimensions – Millimeters



Part Number	Dimensions (mm)			Part Number	Dimensions (mm)		
	L1 Maximum	L2 Maximum	Thread		L1 Maximum	L2 Maximum	Thread
AFCL100322LJ-1-	19.1	4.95	M6x1	AFCL100322JH-1-	19.1	4.95	M6x1
AFCL100347JJ-1-	19.1	4.95	M6x1	AFCL100322JG-1-	19.1	4.95	M6x1
AFCL100382DJ-1-	19.1	4.95	M6x1	AFCL100322JF-1-	19.1	4.95	M6x1
AFCL100322LJ-2-	19.1	8	M6x1	AFCL100310LH-1-	19.1	4.95	M6x1
AFCL100347JJ-2-	19.1	8	M6x1	AFCL100310LG-1-	19.1	4.95	M6x1
AFCL100382DJ-2-	19.1	8	M6x1	AFCL100310LF-1-	19.1	4.95	M6x1
AFCL100310LJ-3-	14.2	4.95	M6x1	AFCL100347DH-2-	19.1	8	M6x1
AFCL100322JJ-3-	14.2	4.95	M6x1	AFCL100347DG-2-	19.1	8	M6x1
AFCL100347DJ-3-	14.2	4.95	M6x1	AFCL100347DF-2-	19.1	8	M6x1
AFCL100310LJ-4-	14.2	8	M6x1	AFCL100322JH-2-	19.1	8	M6x1
AFCL100322JJ-4-	14.2	8	M6x1	AFCL100322JG-2-	19.1	8	M6x1
AFCL100347DJ-4-	14.2	8	M6x1	AFCL100322JF-2-	19.1	8	M6x1
AFCL100347DH-1-	19.1	4.95	M6x1	AFCL100310LH-2-	19.1	8	M6x1
AFCL100347DG-1-	19.1	4.95	M6x1	AFCL100310LG-2-	19.1	8	M6x1
AFCL100347DF-1-	19.1	4.95	M6x1	AFCL100310LF-2-	19.1	8	M6x1

Overview

A family of feed-through filters using film capacitor technology to achieve good temperature stability. This series are particularly used where high levels of attenuation up to 1GHz are required. The units are housed in robust, sealed, metal containers of threaded construction, and offer a range of terminal finishes.

- Very high attenuation level throughout frequency spectrum
- Self-healing capacitors
- Wide choice of performance options
- Superior pulse current capability
- Excellent temperature stability
- Wire, fast-on or tag termination options

Applications

Specifically designed for military, industrial, telecom and medical applications, but especially suitable for use where fast rising transients are expected.



Technical Specifications

Item	Parameters/Characteristics
Rated Voltage	200 VDC
Rated Current	0.5 – 10 A
Rated Temperature	40°C
Temperature range	-25°C to 85°C
Climate Category	25/085/21
Voltage Test	300 VDC

Typical Electrical Schematic



Technical Specifications cont.

Part Number	C (nF)	Rated Current at 40°C (A)	Rated Voltage (VDC/VAC)	Voltage Test (VDC)	RDC (mΩ)
AFPI100410HP(1)1S	2x500	0.5	200/160	300	<700
AFPI100410HF(1)1S	2x500	1	200/160	300	<200
AFPI100410HG(1)1S	2x500	3	200/160	300	<50
AFPI100410HH(1)1S	2x500	5	200/160	300	<10
AFPI100410HJ(1)1S	2x500	10	200/160	300	<5

(1) Termination: W = Wire
T = Tag

Approvals

Standard	Certification Body	File Number
UL 1283, 5 th Edition	UL	E192374

Environmental Compliance

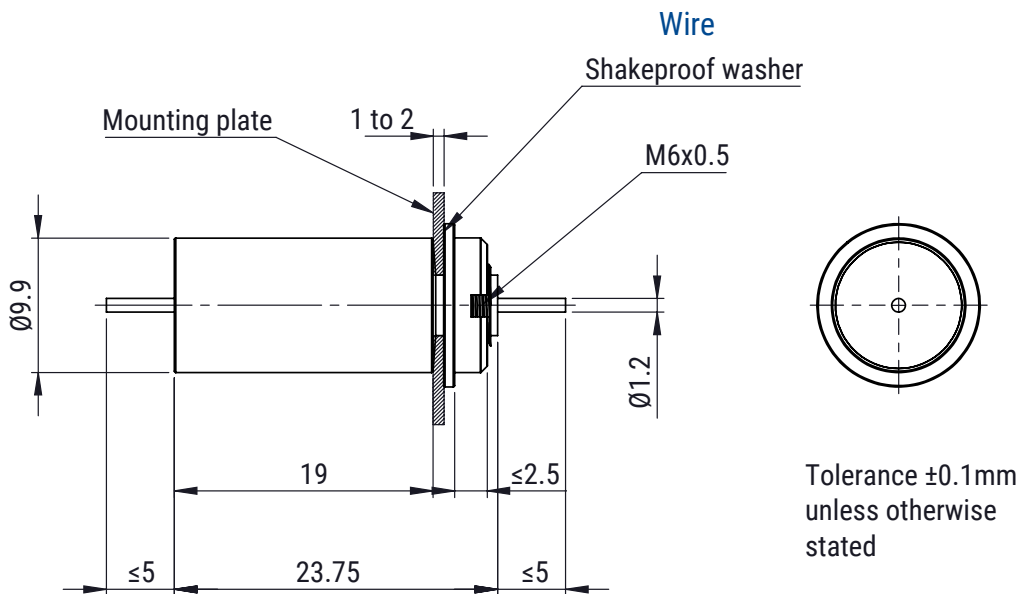
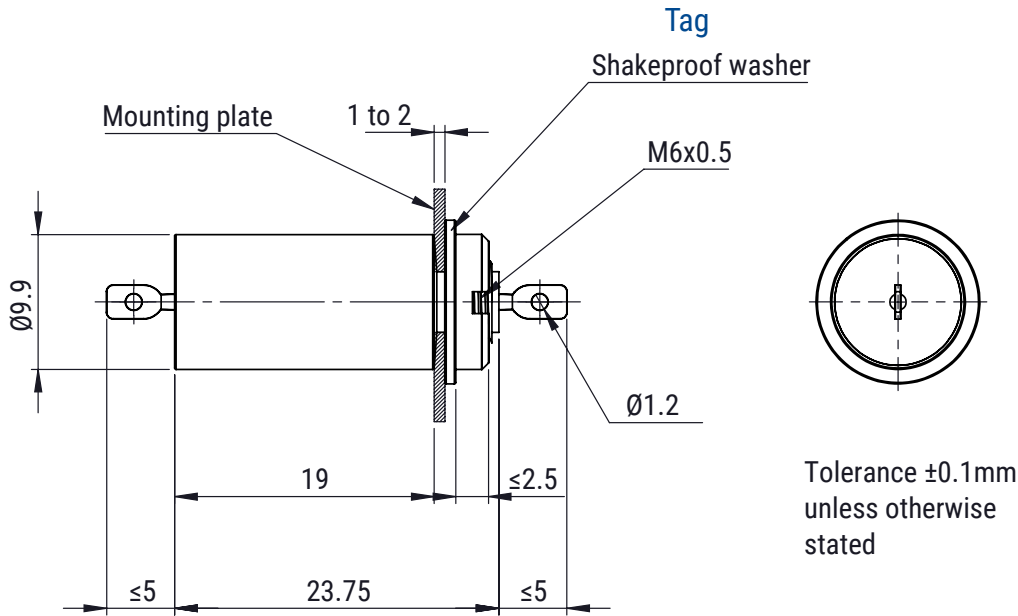
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Typical Insertion Loss

Part Number	50 kHz (dB)	100 kHz (dB)	300 kHz (dB)	1 MHz (dB)	10 MHz (dB)	100 MHz (dB)
AFPI100410HP-1S	33	52	79	100	100	100
AFPI100410HF-1S	8	35	66	95	100	100
AFPI100410HG-1S	8	28	62	93	100	100
AFPI100410HH-1S	-	16	44	74	100	100
AFPI100410HJ-1S	-	18	29	57	100	100

Mechanical Dimensions – Millimeters



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