

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 1,500 pF – 47 nF
- Self healing capacitors
- Wide choice of performance options
- Superior pulse current capability
- Excellent temperature stability
- Wire or tag termination options

Applications

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



Technical Specifications

Item	Parameters/ Characteristics
Rated Voltage	125 – 150 VAC 100 – 630 VDC
Rated Frequency	400 Hz
Rated Current	10 A
R_{DC}	6 mΩ
Rated Temperature	40°C
Temperature Range	-55°C to 125°C
Climate Category	55/125/56
Voltage Test	160 – 1,000 VDC

Typical Electrical Schematic



Technical Specifications cont.

Part Number	Rated Voltage (VDC/VAC)	C (pF)	Pulse Capability (V/μs)
AFCL060115NJ(1)1(2)	630/125	1,500	2,000
AFCL060150LJ(1)1(2)	350/125	5,000	1,200
AFCL060210JJ(1)1(2)	250/-	10,000	1,200
AFCL060227DJ(1)1(2)	100/-	27,000	1,200
AFCL060115NJ(1)2(2)	630/150	1,500	2,000
AFCL060130NJ(1)2(2)	630/150	3,000	2,000
AFCL060210LJ(1)2(2)	350/125	10,000	720
AFCL060227JJ(1)2(2)	250/-	27,000	720
AFCL060247DJ(1)2(2)	100/-	47,000	720

(1) Termination: W = Wire
T = Tag

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

Environmental Compliance

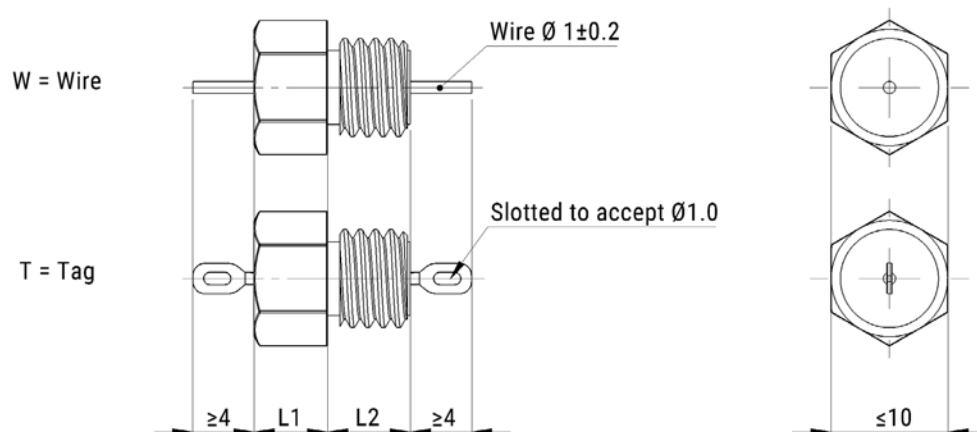
KEMET EMI filters are RoHS Compliant.



Typical Insertion Loss

Part Number	1 MHz (dB)	10 MHz (dB)	30 MHz (dB)	100 MHz (dB)	400 MHz (dB)
AFCL060115NJ-1-	-	8	18	27	43
AFCL060150LJ-1-	-	16	28	38	53
AFCL060210JJ-1-	-	20	30	40	58
AFCL060227DJ-1-	10	30	40	47	63
AFCL060115NJ-2-	-	8	18	27	43
AFCL060130NJ-2-	-	13	25	35	53
AFCL060210LJ-2-	-	20	30	40	58
AFCL060227JJ-2-	10	28	36	45	63
AFCL060247DJ-2-	16	37	47	51	68

Mechanical Dimensions – Millimeters



Part Number	Dimensions (mm)		
	L1 Maximum	L2 Maximum	Thread
AFCL060115NJ-1-	6.1	8	5/16-24 UNF
AFCL060150LJ-1-	6.1	8	5/16-24 UNF
AFCL060210JJ-1-	6.1	8	5/16-24 UNF
AFCL060227DJ-1-	6.1	8	5/16-24 UNF
AFCL060115NJ-2-	6.1	12	5/16-24 UNF
AFCL060130NJ-2-	6.1	12	5/16-24 UNF
AFCL060210LJ-2-	6.1	12	5/16-24 UNF
AFCL060227JJ-2-	6.1	12	5/16-24 UNF
AFCL060247DJ-2-	6.1	12	5/16-24 UNF

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