AFPI 100 Small Signal Feed-Through Filters



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

KEMET EMI filters are RoHS Compliant.

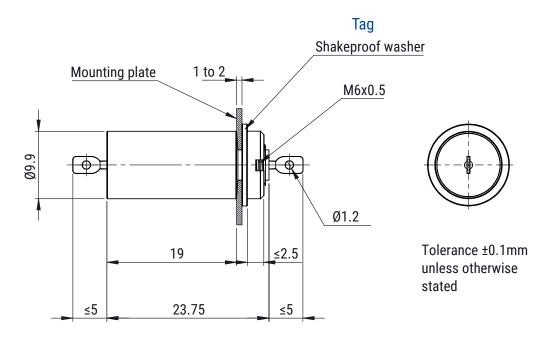


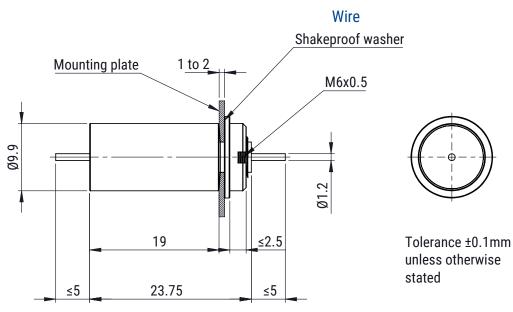
Typical Insertion Loss

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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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.