

AKCL100412RJW5T Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	AKCL100412RJW5T-DG
Manufacturer	KEMET
Manufacturer Product Number	AKCL100412RJW5T
Description	CAP FILTER CER FEED THROUGH
Detailed Description	Ceramic Capacitor

This model AKCL100412RJW5T is available at DiGi Electronics.

DiGi Electronics offers a global database of semiconductor and electronic component datasheets.

We welcome your inquiries regarding pricing, lead time, or other product-related questions.

 [Request a Quote](#)

 [Datasheet Search](#)



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

AKCL100412RJW5T

Series:

*

Manufacturer:

KEMET

Product Status:

Active

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8548.00.0000

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

EMI Filters

AKCL 100**Small Signal Feed-Through Filters****KEMET**
a YAGEO company**Overview**

A feed-through filter series utilizing discoidal ceramics for the capacitive element. This robust multilayer structure provides solutions for EMI problems from 30kHz to 1GHz. The filters are housed in robust, sealed metal cylinders with threaded construction, and offer a range of terminal options.

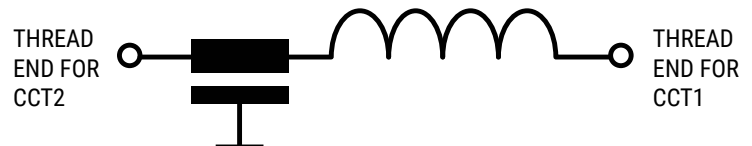
- Very high attenuation level throughout frequency spectrum
- Capacitor value 1.2 μF rated 80 VDC
- Wide choice of performance options
- Excellent temperature stability
- Hermetic construction

Applications

Specifically designed for military, industrial, telecom and medical applications.

**Technical Specifications**

Item	Parameters/Characteristics
Rated Voltage	50 VAC 80 VDC
Rated Current	0.06 – 15 A
Capacitance	1.2 μF
Rated Temperature	40°C
Temperature range	-55°C to 125°C
Climate Category	55/125/56
Voltage Test	200 VDC

Typical Electrical Schematic**Built Into Tomorrow**

Technical Specifications cont.

Part Number	Rated Current at 40°C (A)	RDC (mΩ)	CCT
AKCL100412RK(1)1(2)	15	0.08	1
AKCL100412RK(1)3(2)	15	0.08	1
AKCL100412RA(1)5(2)	0.06	70	1
AKCL101412RA(1)5(2)	0.06	70	2
AKCL100412RB(1)5(2)	0.15	12	1
AKCL101412RB(1)5(2)	0.15	12	2
AKCL100412RC(1)5(2)	0.25	4	1
AKCL101412RC(1)5(2)	0.25	5	2
AKCL100412RD(1)5(2)	0.3	2.3	1
AKCL101412RD(1)5(2)	0.3	2.3	2
AKCL100412RE(1)5(2)	0.45	1.2	1
AKCL101412RE(1)5(2)	0.45	1.2	2
AKCL100412RJ(1)5(2)	10	0.01	1
AKCL101412RJ(1)5(2)	10	0.01	2

(1) Termination: W = Wire
T = Tag

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

Environmental Compliance

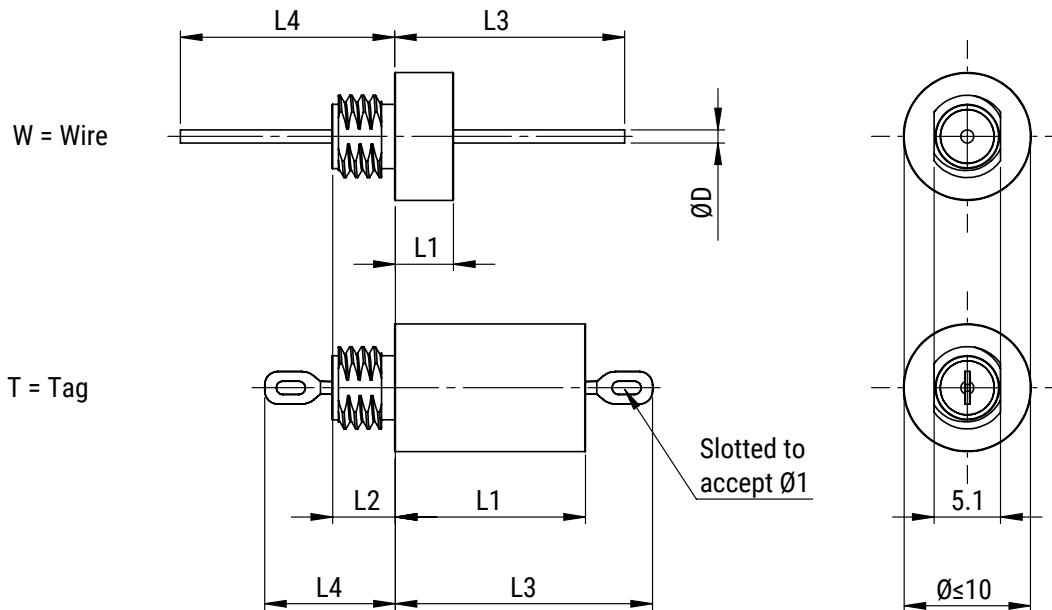
KEMET EMI filters are RoHS Compliant.



Typical Insertion Loss

Part Number	30 kHz (dB)	150 kHz (dB)	300 kHz (dB)	1 MHz (dB)	10 MHz (dB)	1 GHz (dB)
AKCL100412RK-1-	15	28	34	44	60	70
AKCL100412RK-3-	15	28	34	44	60	70
AKCL100412RA-5-	44	70	70	70	70	70
AKCL101412RA-5-	44	70	70	70	70	70
AKCL100412RB-5-	24	52	64	70	70	70
AKCL101412RB-5-	24	52	64	70	70	70
AKCL100412RC-5-	18	42	56	70	70	70
AKCL101412RC-5-	18	42	56	70	70	70
AKCL100412RD-5-	16	35	44	62	70	70
AKCL101412RD-5-	16	35	44	62	70	70
AKCL100412RE-5-	15	31	37	55	70	70
AKCL101412RE-5-	15	31	37	55	70	70
AKCL100412RJ-5-	15	28	33	44	70	70
AKCL101412RJ-5-	15	28	33	44	70	70

Mechanical Dimensions – Millimeters



Part Number	Dimensions (mm)							Wire $\text{Ø} D$	Thread
	L1 Maximum	L2 Maximum	L3 Maximum Tag	L3 Maximum Wire	L4 Maximum Tag	L4 Maximum Wire			
AKCL100412RK-1-	4.6	4.85	8.25	17	8.9	17.2	1	1/4 - 28 UNF	
AKCL100412RK-3-	4.6	4.85	8.5	17	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL100412RA-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL101412RA-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL100412RB-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL101412RB-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL100412RC-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL101412RC-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL100412RD-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL101412RD-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL100412RE-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL101412RE-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL100412RJ-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	
AKCL101412RJ-5-	14.7	4.85	18.8	27	8.9	17.2	1.5	1/4 - 28 UNF	

KEMET Electronics Corporation Sales Offices

For a complete list of our global sales offices, please visit www.kemet.com/sales.

Disclaimer

YAGEO Corporation and its affiliates do not recommend the use of commercial or automotive grade products for high reliability applications or manned space flight.

All product specifications, statements, information and data (collectively, the "Information") in this datasheet are subject to change. The customer is responsible for checking and verifying the extent to which the Information contained in this publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied.

Statements of suitability for certain applications are based on KEMET Electronics Corporation's ("KEMET") knowledge of typical operating conditions for such applications, but are not intended to constitute – and KEMET specifically disclaims – any warranty concerning suitability for a specific customer application or use. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by KEMET with reference to the use of KEMET's products is given gratis, and KEMET assumes no obligation or liability for the advice given or results obtained.

Although KEMET designs and manufactures its products to the most stringent quality and safety standards, given the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage.

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.

KEMET is a registered trademark of KEMET Electronics Corporation.

OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

Email: Info@DiGi-Electronics.com



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.