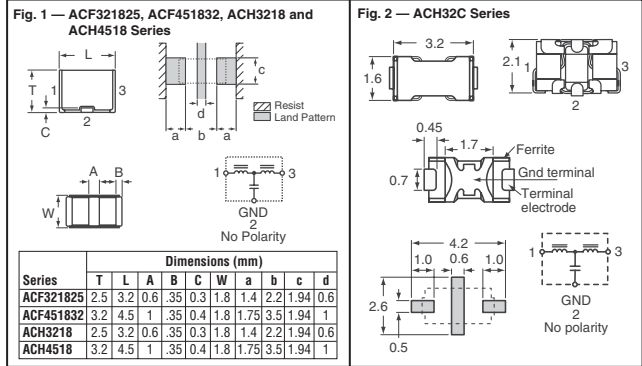




3-Terminal Filters for Signal Line and DC Power Line / SMD – ACF and ACH Series

Features: • The ACF and ACH series are T-type EMC filters incorporating ferrite chip beads and multilayer ceramic chip capacitors. • The external structure consists entirely of ferrite, enabling these parts to achieve superior attenuation characteristics despite their extremely compact dimensions. • Because they can be mounted on edge, the ACF and ACH series are ideal for high-density circuit configurations.



Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 50	Tape and Reel Pricing* 1,000	TDK Part No.
Fig. 1 - ACF321825 Series, Operating Temperature -25°C - 85°C						
17	0.3	0.15	445-2059-1-ND	51 4.38 20.22	235.95	ACF321825-223-TD01
27	0.3	0.15	445-2060-1-ND	51 4.38 20.22	235.95	ACF321825-103-TD01
37	0.3	0.15	445-2061-1-ND	51 4.38 20.22	235.95	ACF321825-682-TD01
45	0.3	0.15	445-2062-1-ND	51 4.38 20.22	235.95	ACF321825-472-TD01
55	0.3	0.15	445-2063-1-ND	51 4.38 20.22	235.95	ACF321825-332-TD01
65	0.3	0.15	445-2064-1-ND	51 4.38 20.22	235.95	ACF321825-222-TD01
80	0.3	0.15	445-2065-1-ND	51 4.38 20.22	235.95	ACF321825-152-TD01
100	0.3	0.15	445-2066-1-ND	51 4.38 20.22	235.95	ACF321825-102-TD01
120	0.3	0.15	445-2067-1-ND	51 4.38 20.22	235.95	ACF321825-681-TD01
145	0.3	0.15	445-2068-1-ND	51 4.38 20.22	235.95	ACF321825-471-TD01
165	0.3	0.15	445-2069-1-ND	51 4.38 20.22	235.95	ACF321825-331-TD01
200	0.3	0.15	445-2070-1-ND	51 4.38 20.22	235.95	ACF321825-221-TD01
240	0.3	0.15	445-2071-1-ND	51 4.38 20.22	235.95	ACF321825-151-TD01
300	0.3	0.15	445-2072-1-ND	51 4.38 20.22	235.95	ACF321825-101-TD01
370	0.3	0.15	445-2073-1-ND	51 4.38 20.22	235.95	ACF321825-680-TD01
450	0.3	0.15	445-2074-1-ND	51 4.38 20.22	235.95	ACF321825-470-TD01
530	0.3	0.15	445-2075-1-ND	51 4.38 20.22	235.95	ACF321825-330-TD01
650	0.3	0.15	445-2076-1-ND	51 4.38 20.22	235.95	ACF321825-220-TD01

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 50	Tape and Reel Pricing* 1,000	TDK Part No.
Fig. 1 - ACF451832 Series, Operating Temperature -25°C - 85°C						
12	0.3	0.15	445-2077-1-ND	61 5.26 24.27	283.15	ACF451832-333-TD01
15	0.3	0.15	445-2078-1-ND	61 5.26 24.27	283.15	ACF451832-223-TD01
18	0.3	0.15	445-2079-1-ND	61 5.26 24.27	283.15	ACF451832-153-TD01
23	0.3	0.15	445-2080-1-ND	61 5.26 24.27	283.15	ACF451832-103-TD01
35	0.3	0.15	445-2081-1-ND	61 5.26 24.27	283.15	ACF451832-682-TD01
40	0.3	0.15	445-2082-1-ND	61 5.26 24.27	283.15	ACF451832-472-TD01
50	0.3	0.15	445-2083-1-ND	61 5.26 24.27	283.15	ACF451832-332-TD01
60	0.3	0.15	445-2084-1-ND	61 5.26 24.27	283.15	ACF451832-222-TD01
75	0.3	0.15	445-2085-1-ND	61 5.26 24.27	283.15	ACF451832-152-TD01
90	0.3	0.15	445-2086-1-ND	61 5.26 24.27	283.15	ACF451832-102-TD01
105	0.3	0.15	445-2087-1-ND	61 5.26 24.27	283.15	ACF451832-681-TD01
125	0.3	0.15	445-2088-1-ND	61 5.26 24.27	283.15	ACF451832-471-TD01
150	0.3	0.15	445-2089-1-ND	61 5.26 24.27	283.15	ACF451832-331-TD01
190	0.3	0.15	445-2090-1-ND	61 5.26 24.27	283.15	ACF451832-221-TD01
230	0.3	0.15	445-2091-1-ND	61 5.26 24.27	283.15	ACF451832-151-TD01
280	0.3	0.15	445-2092-1-ND	61 5.26 24.27	283.15	ACF451832-101-TD01
340	0.3	0.15	445-2093-1-ND	61 5.26 24.27	283.15	ACF451832-680-TD01
410	0.3	0.15	445-2094-1-ND	61 5.26 24.27	283.15	ACF451832-470-TD01
500	0.3	0.15	445-2095-1-ND	61 5.26 24.27	283.15	ACF451832-330-TD01
600	0.3	0.15	445-2096-1-ND	61 5.26 24.27	283.15	ACF451832-220-TD01

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 50	Tape and Reel Pricing* 1,000	TDK Part No.
Fig. 1 - ACH3218 Series, Operating Temperature -25°C - 85°C						
17	1.5	0.06	445-2097-1-ND	51 4.38 20.22	235.95	ACH3218-223-TD01
27	1.5	0.06	445-2098-1-ND	51 4.38 20.22	235.95	ACH3218-103-TD01
37	1.5	0.06	445-2099-1-ND	51 4.38 20.22	235.95	ACH3218-682-TD01
45	1.5	0.06	445-2100-1-ND	51 4.38 20.22	235.95	ACH3218-472-TD01
55	1.5	0.06	445-2101-1-ND	51 4.38 20.22	235.95	ACH3218-332-TD01
65	1.5	0.06	445-2102-1-ND	51 4.38 20.22	235.95	ACH3218-222-TD01
80	1.5	0.06	445-2103-1-ND	51 4.38 20.22	235.95	ACH3218-152-TD01
100	1.5	0.06	445-2104-1-ND	51 4.38 20.22	235.95	ACH3218-102-TD01
120	1.5	0.06	445-2105-1-ND	51 4.38 20.22	235.95	ACH3218-681-TD01
145	1.5	0.06	445-2106-1-ND	51 4.38 20.22	235.95	ACH3218-471-TD01
165	1.5	0.06	445-2107-1-ND	51 4.38 20.22	235.95	ACH3218-331-TD01
200	1.5	0.06	445-2108-1-ND	51 4.38 20.22	235.95	ACH3218-221-TD01
240	1.5	0.06	445-2109-1-ND	51 4.38 20.22	236.00	ACH3218-151-TD01
300	1.5	0.06	445-2110-1-ND	51 4.38 20.22	235.95	ACH3218-101-TD01
370	1.5	0.06	445-2111-1-ND	51 4.38 20.22	235.95	ACH3218-680-TD01
450	1.5	0.06	445-2112-1-ND	51 4.38 20.22	235.95	ACH3218-470-TD01
530	1.5	0.06	445-2113-1-ND	51 4.38 20.22	235.95	ACH3218-330-TD01
650	1.5	0.06	445-2114-1-ND	51 4.38 20.22	—	ACH3218-220-TD01

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 50	Tape and Reel Pricing* 1,000	TDK Part No.
Fig. 1 - ACH4518 Series, Operating Temperature -25°C - 85°C						
12	2	0.04	445-2115-1-ND	61 5.26 24.27	283.15	ACH4518-333-TD01
15	2	0.04	445-2116-1-ND	61 5.26 24.27	283.15	ACH4518-223-TD01
18	2	0.04	445-2117-1-ND	61 5.26 24.27	283.15	ACH4518-153-TD01
23	2	0.04	445-2118-1-ND	61 5.26 24.27	283.15	ACH4518-103-TD01

Attenuation Frequency (MHz) Max.	I Max. (A)	Rdc Max. (Ω)	Digi-Key Part No.	Cut Tape Pricing 1 10 50	Tape and Reel Pricing* 1,000	TDK Part No.
35	2	0.04	445-2119-1-ND	61 5.26 24.27	283.15	ACH4518-682-TD01
40	2	0.04	445-2120-1-ND	61 5.26 24.27	283.15	ACH4518-472-TD01
50	2	0.04	445-2121-1-ND	61 5.26 24.27	283.15	ACH4518-332-TD01
60	2	0.04	445-2122-1-ND	61 5.26 24.27	283.15	ACH4518-222-TD01
75	2	0.04	445-2123-1-ND	61 5.26 24.27	283.15	ACH4518-152-TD01
90	2	0.04	445-2124-1-ND	61 5.26 24.27	283.15	ACH4518-102-TD01
105	2	0.04	445-2125-1-ND	61 5.26 24.27	283.15	ACH4518-681-TD01
125	2	0.04	445-2126-1-ND	61 5.26 24.27	283.15	ACH4518-471-TD01
150	2	0.04	445-2127-1-ND	61 5.26 24.27	283.00	ACH4518-331-TD01
190	2	0.04	445-2128-1-ND	61 5.26 24.27	283.15	ACH4518-221-TD01
230	2	0.04	445-2129-1-ND	61 5.26 24.27	—	ACH4518-151-TD01
280	2	0.04	445-2130-1-ND	61 5.26 24.27	283.15	ACH4518-101-TD01
340	2	0.04	445-2131-1-ND	61 5.26 24.27	283.15	ACH4518-680-TD01
410	2	0.04	445-2132-1-ND	61 5.26 24.27	283.15	ACH4518-470-TD01
500	2	0.04	445-2133-1-ND	61 5.26 24.27	283.15	ACH4518-330-TD01
600	2	0.04	445-2134-1-ND	61 5.26 24.27	283.15	ACH4518-220-TD01

Guaranteed Frequency Bandwidth (MHz)	Guaranteed Attenuation (dB)	I Max. (A)	Rdc Max. (mΩ)	Digi-Key Part No.	Cut Tape Pricing 1 10 50	Tape and Reel Pricing* 2,000	TDK Part No.
Fig. 2 - ACH32C Series, Operating Temperature -40°C - 125°C							
3.5 - 150	-25	6	2	445-2998-1-ND	56 4.88 22.52	263.00/M	ACH32C-104-T
10 - 300	-25	6	2	445-2997-1-ND	56 4.88 22.52	263.00/M	ACH32C-333-T
30 - 300	-25	6	2	445-2996-1-ND	56 4.88 22.52	263.00/M	ACH32C-103-T
55 - 300	-25	6	2	445-2995-1-ND	56 4.88 22.52	263.00/M	ACH32C-222-T
100 - 500	-25	6	2	445-2994-1-ND	56 4.88 22.52	263.00/M	ACH32C-102-T
200 - 800	-25	6	2	445-2993-1-ND	56 4.88 22.52	263.00/M	ACH32C-331-T
450 - 1300	-20	6	2	445-2992-1-ND	56 4.88 22.52	263.00/M	ACH32C-101-T
650 - 2500	-15	6	2	445-2991-1-ND	56 4.88 22.52	263.00/M	ACH32C-470-T
1300 - 2500	-15	6	2	445-2990-1-ND	56 4.88 22.52	263.00/M	ACH32C-220-T
2000 - 5500	-15	6	2	445-2989-1-ND	56 4.88 22.52	263.00/M	ACH32C-100-T

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Signal Line / SMD – MEM2012T Series



Features: • Multilayer chip EMC filter utilizing a T-type circuit. • Entirely monolithic structure results in high reliability. • Due to closed magnetic circuit architecture, high-density installation becomes possible and crosstalk generation is prevented. • Steep attenuation characteristic plot. Highly effective noise suppression. • Covers a wide range of frequencies. • Operating Temperature Range: -40°C - 85°C

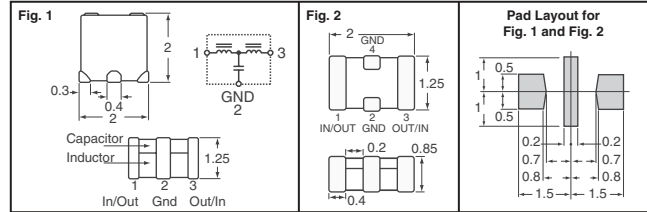


Fig.	Cut-off Freq. (MHz)	I Max. (A)	Digi-Key Part No.	Cut Tape Pricing 1 10 50	Tape and Reel Pricing* 1,000	TDK Part No.
1	10	0.1	445-2135-1-ND	26 2.28 10.52	122.69	MEM2012T10R0
	25	0.15	445-2136-1-ND	26 2.28 10.52	122.69	MEM2012T25R0
	50	0.15	445-2137-1-ND	26 2.28 10.52	122.69	MEM2012T50R0
	75	0.25	445-2138-1-ND	51 4.38 20.22	235.95	MEM2012T75R0
	100	0.25	445-2139-1-ND	26 2.28 10.52	122.69	MEM2012T101R
2	25	0.1	445-3357-1-ND	25 2.17 10.01	4,000	MEM2012T25R0T0S1
	35	0.1	445-3358-1-ND	25 2.17 10.01	4,000	MEM2012T35R0T0S1
	50	0.1	445-3359-1-ND	25 2.17 10.01	4,000	MEM2012T50R0T0S1
	100	0.25	445-3360-1-ND	25 2.17 10.01	4,000	MEM2012T101R0T



3-Terminal Filters for Wide-Band / SMD – MEM2012P Series



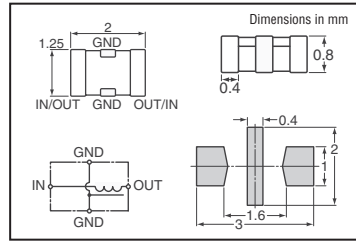
Features:

- Multilayer chip EMC filter that is small and low-profile due to the use of a π -type circuit
- Entirely monolithic structure results in high reliability
- Due to closed magnetic circuit architecture, high-density installation becomes possible, and crosstalk generation is prevented
- Steep attenuation characteristic plot, highly effective noise suppression
- Covers a wide range of frequencies
- π -type circuit with 1 coil / 2 capacitors construction

Applications:

- Computers
- Computer peripherals
- VCRs
- TVs
- Car audio equipment
- Printers
- Game machines

Operating Temperature Range: -40°C – 85°C



Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing* 4,000	TDK Part No.
			1	10	50		
10	0.2	445-3362-1-ND	.33	2.89	13.34	156.00/M	MEM2012P10R0
25	0.2	445-3363-1-ND	.33	2.89	13.34	156.00/M	MEM2012P25R0
50	0.2	445-3364-1-ND	.33	2.89	13.34	156.00/M	MEM2012P50R0
75	0.2	445-3365-1-ND	.33	2.89	13.34	156.00/M	MEM2012P75R0
100	0.2	445-3366-1-ND	.33	2.89	13.34	156.00/M	MEM2012P101R

* For Tape and Reel part number, change 1-ND to 2-ND.

E

3-Terminal Filters for Wide-Band / SMD – MEM2012TC Series



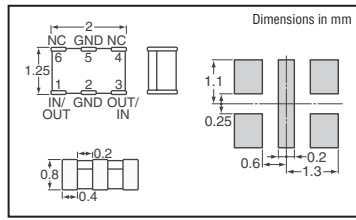
Features:

- Multilayer chip EMC filter utilizing a T-type circuit
- Entirely monolithic structure results in high reliability
- Due to closed magnetic circuit architecture, high-density installation becomes possible, and crosstalk generation is prevented
- Steep attenuation characteristic plot. Highly effective noise suppression
- Covers a wide range of frequencies
- Combines a bead inductor with a through-type capacitor

Applications:

- Computer and computer peripherals
- VCRs
- TVs
- Car audio equipment
- Printers
- Game machines

Operating Temperature Range: -40°C – 85°C



Cap. (pF) ±30%	I Maximum (mA)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing* 4,000	TDK Part No.
			1	10	50		
10	1	445-3367-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC100
22	1	445-3368-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC220
47	1	445-3369-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC470
100	1	445-3370-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC101
150	1	445-3371-1-ND	.33	2.89	13.34	156.00/M	MEM2012TC151

* For Tape and Reel part number, change 1-ND to 2-ND.

3-Terminal Filters for Wide-Band / SMD – MEM2012W Series



These SMD Type 3-terminal filters are used for elimination of high frequency noise from signal lines. Due to a higher cutoff frequency than earlier SMD type 3-terminal filters and steep attenuation characteristics, these filters are effective for elimination of a high level of high frequency noise.

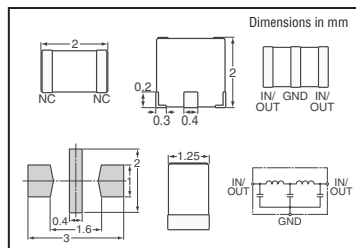
Features:

- Small size
- Entirely monolithic architecture

Applications:

- PCs
- Liquid crystal panels
- Printers
- Game machines
- Cellular phones
- Digital video cameras

Operating Temperature Range: -40°C – 85°C



Cut-off Frequency (MHz)	I Maximum (A)	Digi-Key Part No.	Cut Tape Pricing			Tape and Reel Pricing* 1,000	TDK Part No.
			1	10	50		
120	0.1	445-3372-1-ND	.42	3.61	16.68	195.00	MEM2012W121R
150	0.1	445-3373-1-ND	.42	3.61	16.68	195.00	MEM2012W151R
180	0.1	445-3374-1-ND	.42	3.61	16.68	195.00	MEM2012W181R
210	0.1	445-3375-1-ND	.42	3.61	16.68	195.00	MEM2012W211R
240	0.1	445-3376-1-ND	.42	3.61	16.68	195.00	MEM2012W241R

* For Tape and Reel part number, change 1-ND to 2-ND.

Common Mode Choke Coils for Signal Line / SMD – ZJYS Series



Features:

- A common mode filter for distortion-free noise removal from transmitted signals. Optimized for transmission of high quality signals
- Best filter for countering the common mode noise resulting from data signal processing by PCs, phone equipment, etc
- Due to a maximum current tolerance of 5A, can also be used to counter power line noise
- The ZJYS81R5-2PL is a high inductance common mode filter designed to use with a CAN-BUS

Fig. 1 — ZJYS51R5-2P, -2PB, -2PL

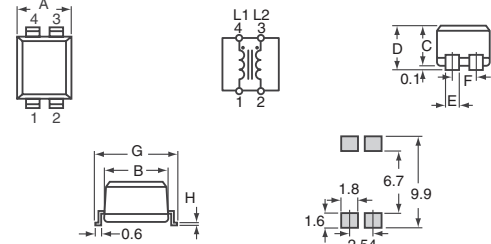


Fig. 2 — ZJYS51R5-4P, -M4PA

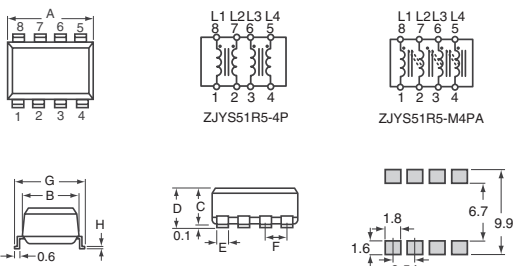


Fig. 3 — ZJYS81R5-2PL25-G01, -2PL51-G01

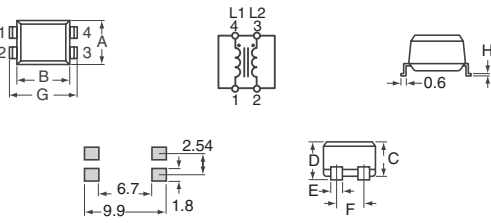


Fig.	Dimensions - mm								TDK Part No.
	A (Max.)	B (Max.)	C (Max.)	D (Max.)	E	F	G (Max.)	H	
1	5.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-2P, -2PB, -2PL
2	10.5	6.86	4.57	5.08	1.3	2.54	9	0.25	ZJYS51R5-4P, -M4PA
3	6	7.1	4.5	5	1.3	2.54	9	0.25	ZJYS81R5-2PL25-G01, -2PL51-G01

Minimum Impedance Ω (MHz)	Rated Current I (A)	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel* Qty.	Pricing	TDK Part No.
			1	10	50			
Fig. 1 — 50V, Operating Temperature -25°C – 85°C								
200 (20 – 300)	2	445-2219-1-ND	1.31	1.14	1.06	1,500	613.48/M	ZJYS51R5-2PT-01
200 (20 – 300)	2	445-2220-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS51R5-2PBT-01
200 (20 – 300)	2	445-2221-1-ND	1.42	1.23	1.14	1,500	660.66/M	ZJYS51R5-2PLT-01

Fig. 2 — 50V, Operating Temperature -25°C – 85°C								
200 (20 – 300)	2	445-2224-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-4PT-01
200 (20 – 300)	0.5	445-2225-1-ND	2.22	1.93	1.78	1,000	1038.19	ZJYS51R5-MPAT-01

Fig. 3 — 80V, Operating Temperature -40°C – 125°C								
600 (10 – 100)	0.5	445-2222-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL25T-G01
1000 (10 – 100)	0.5	445-2223-1-ND	1.52	1.32	1.22	1,500	707.86/M	ZJYS81R5-2PL51T-G01

* For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digikey.com