

EMC Components

3-Terminal Filters for DC Power Line SMD

ACH Series ACH3218, 4518 Types

FEATURES

- These T-type EMC filters comprise ferrite beads and chip capacitors and are engineered to handle high current levels.
- They provide highly effective EMC suppression.
- Because their structures are almost entirely ferrite, they exhibit excellent attenuation characteristics.
- Available for reflow soldering.
- It is a product conforming to RoHS directive.

PRODUCT IDENTIFICATION

ACH	3218	- 223
(1)	(2)	(3)

- (1) Series name
(2) Dimensions
(3) Capacitance

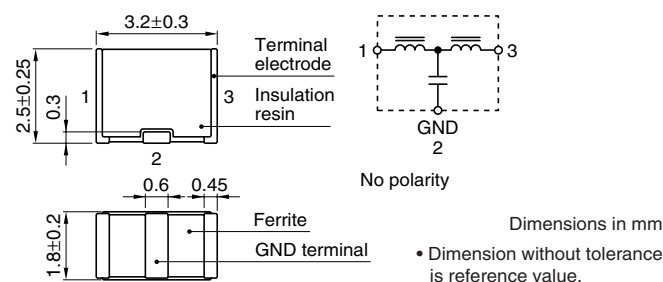
TEMPERATURE RANGES

Operating/Storage	-25 to +85°C
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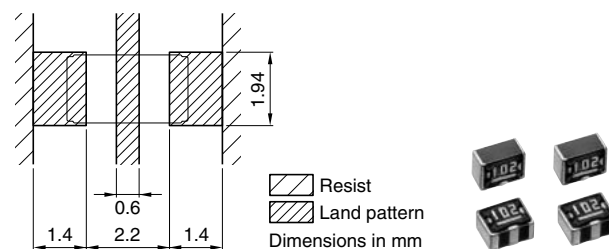
PACKAGING STYLE AND QUANTITIES

Packaging style	Quantity
Taping	1000 pieces/reel

ACH3218 TYPE SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN REFLOW SOLDERING



ELECTRICAL CHARACTERISTICS

Part No.	Maximum attenuation frequency (MHz)	25dB attenuation frequency range (MHz)	Rated voltage E _{dc} (V)max.	Rated current (A)max.	DC resistance (Ω)max. [Terminal No.1 to 3]	Insulation resistance (MΩ)min. [Terminal No.1 to 2/No.2 to 3]
ACH3218-223	17	11 to 55	20	1.5	0.06	1000
ACH3218-103	27	17 to 60	20	1.5	0.06	1000
ACH3218-682	37	22 to 75	20	1.5	0.06	1000
ACH3218-472	45	30 to 85	20	1.5	0.06	1000
ACH3218-332	55	37 to 90	20	1.5	0.06	1000
ACH3218-222	65	45 to 105	20	1.5	0.06	1000
ACH3218-152	80	60 to 115	20	1.5	0.06	1000
ACH3218-102	100	80 to 140	20	1.5	0.06	1000
ACH3218-681	120	95 to 150	20	1.5	0.06	1000
ACH3218-471	145	120 to 180	20	1.5	0.06	1000
ACH3218-331	165	130 to 210	20	1.5	0.06	1000
ACH3218-221	200	170 to 250	20	1.5	0.06	1000
ACH3218-151	240	205 to 280	20	1.5	0.06	1000
ACH3218-101	300	265 to 340	20	1.5	0.06	1000
ACH3218-680	370	340 to 420	20	1.5	0.06	1000
ACH3218-470	450	420 to 500	20	1.5	0.06	1000
ACH3218-330	530	500 to 600	20	1.5	0.06	1000
ACH3218-220	650	600 to 700	20	1.5	0.06	1000

- Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

- Please contact our Sales office when your application are considered the following:
The device's failure or malfunction may directly endanger human life (e.g. application for automobile/aircraft/medical/nuclear power devices, etc.)

- All specifications are subject to change without notice.

EMC Components

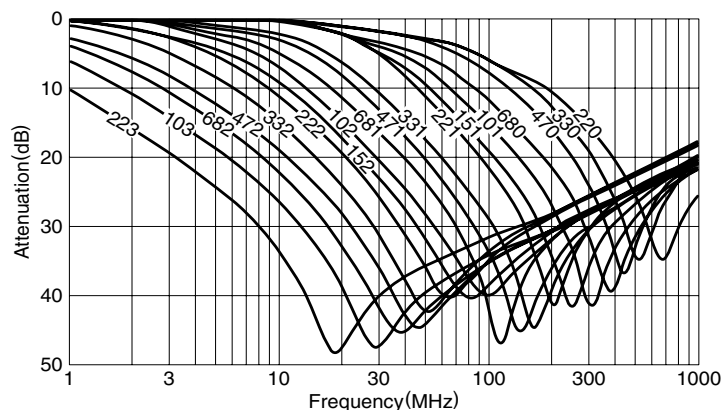
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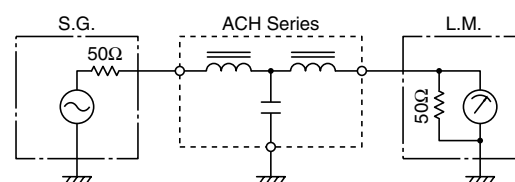
ACH3218 TYPE

TYPICAL ELECTRICAL CHARACTERISTICS

ATTENUATION vs. FREQUENCY CHARACTERISTICS

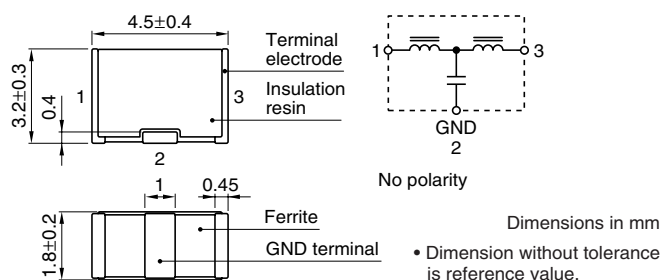


MEASURING CIRCUIT

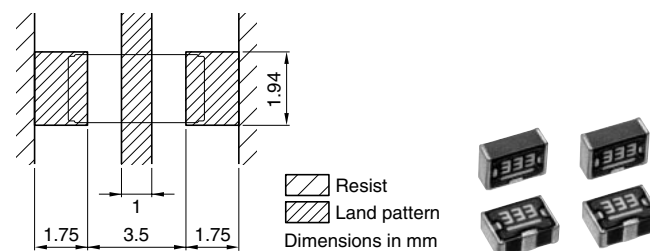


ACH4518 TYPE

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM



RECOMMENDED PC BOARD PATTERN REFLOW SOLDERING



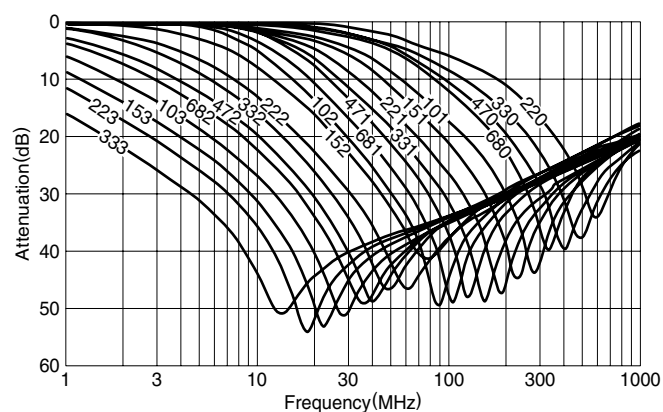
ELECTRICAL CHARACTERISTICS

Part No.	Maximum attenuation frequency (MHz)	25dB attenuation frequency range (MHz)	Rated voltage E _{dc} (V)max.	Rated current (A)max.	DC resistance (Ω)max. [Terminal No.1 to 3]	Insulation resistance (MΩ)min. [Terminal No.1 to 2/No.2 to 3]
ACH4518-333	12	6 to 60	50	2	0.04	1000
ACH4518-223	15	9 to 65	50	2	0.04	1000
ACH4518-153	18	11 to 70	50	2	0.04	1000
ACH4518-103	23	15 to 75	50	2	0.04	1000
ACH4518-682	35	20 to 85	50	2	0.04	1000
ACH4518-472	40	25 to 90	50	2	0.04	1000
ACH4518-332	50	35 to 100	50	2	0.04	1000
ACH4518-222	60	40 to 110	50	2	0.04	1000
ACH4518-152	75	50 to 130	50	2	0.04	1000
ACH4518-102	90	65 to 150	50	2	0.04	1000
ACH4518-681	105	75 to 160	50	2	0.04	1000
ACH4518-471	125	95 to 180	50	2	0.04	1000
ACH4518-331	150	115 to 205	50	2	0.04	1000
ACH4518-221	190	150 to 250	50	2	0.04	1000
ACH4518-151	230	190 to 290	50	2	0.04	1000
ACH4518-101	280	235 to 335	50	2	0.04	1000
ACH4518-680	340	290 to 395	50	2	0.04	1000
ACH4518-470	410	360 to 460	50	2	0.04	1000
ACH4518-330	500	450 to 550	50	2	0.04	1000
ACH4518-220	600	530 to 650	50	2	0.04	1000

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ATTENUATION vs. FREQUENCY CHARACTERISTICS



MEASURING CIRCUIT

