ACA Series ACA3216, 5020 Types

EMC Components **Ferrite Beads**

SMD Array

FEATURES

- A single ACA series chip can be used to suppress noise on 3, 4, or 6 lines, depending on the selected part. This product is thus an excellent choice for EMC suppression at the I/O lines of compact electronic equipment, such as portables, which require high-density circuit configurations.
- Two types are available: the M type for general signals and the H type for high-speed (high-frequency band) signals. This noise countermeasure is therefore applicable to various types of circuits.
- · A 3-line type is available specifically for audio applications, such as headphone lines.

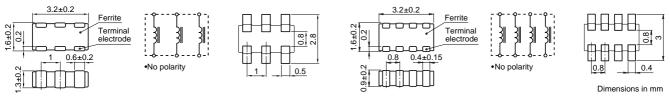
ACA3216 TYPE (3- and 4-Line)

• A 4-line type with a 3216 form factor is available as a direct replacement for standard chip resistor arrays. It can be used without any change to the circuit board land pattern.

APPLICATIONS

Noise suppression for audio applications, including headphone lines in CD-ROM, DVD, MD, and other equipment (3-line type). Noise suppression for the I/O lines of notebook PCs, word processors, digital TVs and VTRs, and portable communications equipment.

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS (REFLOW SOLDERING) 3-LINE 4-LINE

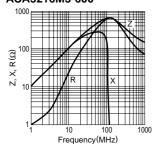


ELECTRICAL CHARACTERISTICS

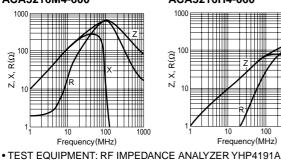
Part No.	Impedance (Ω) [100MHz]	DC resistance (Ω)max.	Rated current (mA)max.	Pitch (mm)	Built-in line number	Voltage between lines Edc(V)max.
ACA3216M3-600-X*	600±25%	0.85	100	1	3	5
ACA3216M4-060-X	60±25%	0.4	300	0.8	4	5
ACA3216M4-120-X	120±25%	1	200	0.8	4	5
ACA3216M4-300-X	300±25%	1.7	100	0.8	4	5
ACA3216M4-600-X	600±25%	2.3	60	0.8	4	5
ACA3216H4-060-X	60±25%	0.5	250	0.8	4	5
ACA3216H4-120-X	120±25%	0.8	150	0.8	4	5
ACA3216H4-300-X	300±25%	1.7	100	0.8	4	5

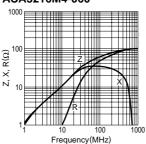
* X:Packaging style (T: Taping [ø180mm reel], TL: Taping [ø330mm reel], B: Bulk)

TYPICAL ELECTRICAL CHARACTERISTICS Z, X, R vs. FREQUENCY CHARACTERISTICS ACA3216M3-600 ACA3216M4-060

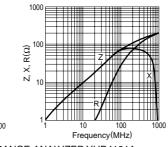


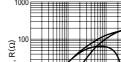
ACA3216M4-600



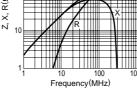


ACA3216H4-060

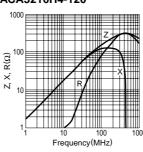




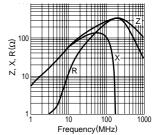
ACA3216M4-120



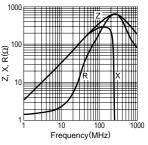
ACA3216H4-120



ACA3216M4-300



ACA3216H4-300



▲ Specifications which provide more details for the proper and safe use of the described product are available upon request. All specifications are subject to change without notice.

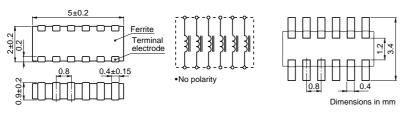
EMC Components

ACA Series ACA3216, 5020 Types

Ferrite Beads SMD Array

ACA5020 TYPE (6-Line)

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN 6-LINE

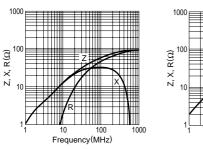


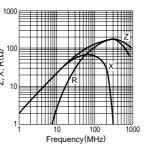
ELECTRICAL CHARACTERISTICS

Part No.	Impedance (Ω) [100MHz]	DC resistance (Ω)max.	Rated current (mA)max.	Pitch (mm)	Built-in line number	Voltage between lines Edc(V)max.
ACA5020M6-060-X*	60±25%	0.3	400	0.8	6	5
ACA5020M6-120-X	120±25%	0.5	200	0.8	6	5
ACA5020H6-060-X	60±25%	0.5	250	0.8	6	5
ACA5020H6-120-X	120±25%	0.8	150	0.8	6	5

* X:Packaging style (T: Taping [ø180mm reel], TL: [ø330mm reel], B: Bulk)

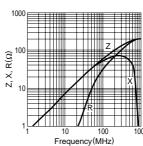
TYPICAL ELECTRICAL CHARACTERISTICS Z, X, R vs. FREQUENCY CHARACTERISTICS ACA5020M6-060 ACA5020M6-120



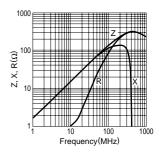


• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

ACA5020H6-060



ACA5020H6-120





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