

EMC Components

Ferrite Beads SMD Array

ACA Series ACA3216, 5020 Types

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.

- 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.

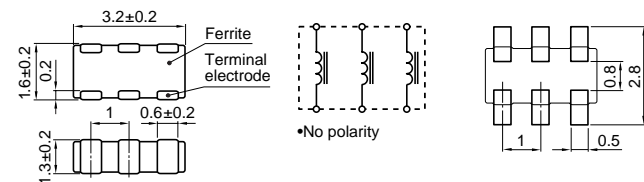
APPLICATIONS

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.

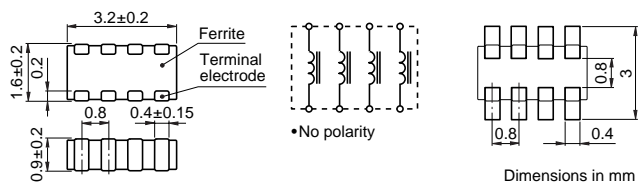
ACA3216 TYPE (3- and 4-Line)

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAMS/RECOMMENDED PC BOARD PATTERNS (REFLOW SOLDERING)

3-LINE



4-LINE



Dimensions in mm

ELECTRICAL CHARACTERISTICS

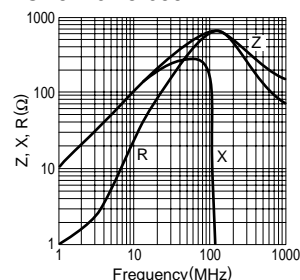
Part No.	Impedance (Ω) [100MHz]	DC resistance (Ω)max.	Rated current (mA)max.	Pitch (mm)	Built-in line number	Voltage between lines Edc(V)max.
ACA3216M3-600-X*	600±25%	0.85	100	1	3	12
ACA3216M4-060-X	60±25%	0.4	300	0.8	4	12
ACA3216M4-120-X	120±25%	1	200	0.8	4	12
ACA3216M4-300-X	300±25%	1.7	100	0.8	4	12
ACA3216M4-600-X	600±25%	2.3	60	0.8	4	12
ACA3216H4-060-X	60±25%	0.5	250	0.8	4	12
ACA3216H4-120-X	120±25%	0.8	150	0.8	4	12
ACA3216H4-300-X	300±25%	1.7	100	0.8	4	12

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

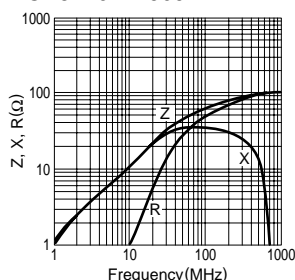
TYPICAL ELECTRICAL CHARACTERISTICS

Z, X, R vs. FREQUENCY CHARACTERISTICS

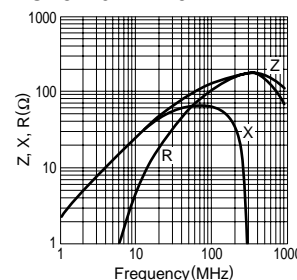
ACA3216M3-600



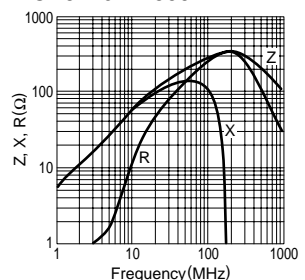
ACA3216M4-060



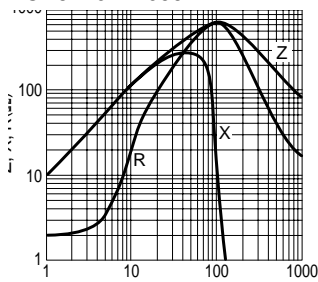
ACA3216M4-120



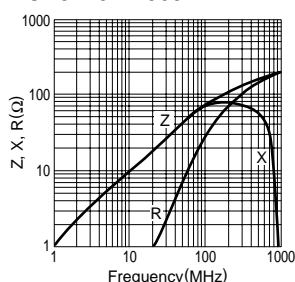
ACA3216M4-300



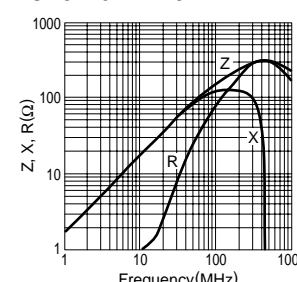
ACA3216M4-600



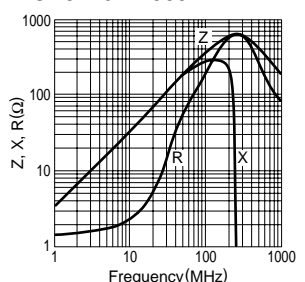
ACA3216H4-060



ACA3216H4-120



ACA3216H4-300



• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

EMC Components

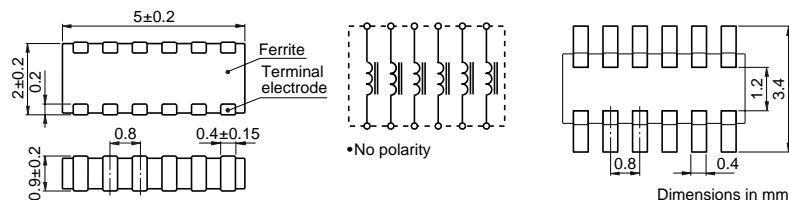
Ferrite Beads SMD Array

ACA Series ACA3216, 5020 Types

ACA5020 TYPE (6-Line)

SHAPES AND DIMENSIONS/CIRCUIT DIAGRAM/RECOMMENDED PC BOARD PATTERN

6-LINE



ELECTRICAL CHARACTERISTICS

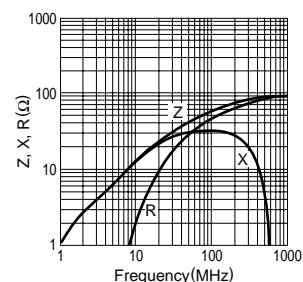
Part No.	Impedance (Ω) [100MHz]	DC resistance (Ω)max.	Rated current (mA)max.	Pitch (mm)	Built-in line number	Voltage between lines Edc(V)max.
ACA5020M6-060-X*	60±25%	0.3	400	0.8	6	12
ACA5020M6-120-X	120±25%	0.5	200	0.8	6	12
ACA5020H6-060-X	60±25%	0.5	250	0.8	6	12
ACA5020H6-120-X	120±25%	0.8	150	0.8	6	12

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

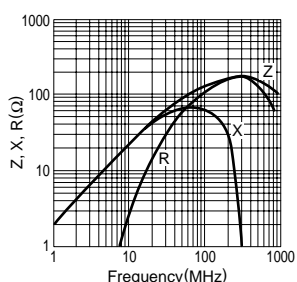
TYPICAL ELECTRICAL CHARACTERISTICS

Z, X, R vs. FREQUENCY CHARACTERISTICS

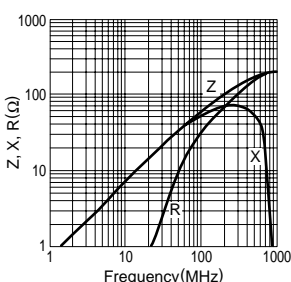
ACA5020M6-060



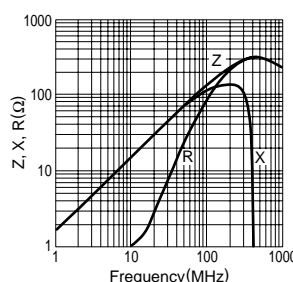
ACA5020M6-120



ACA5020H6-060



ACA5020H6-120



• TEST EQUIPMENT: RF IMPEDANCE ANALYZER YHP4191A

