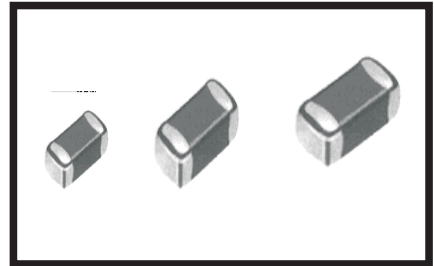


鐵氧體疊層片式磁珠 (尖峰型) FERRITE CHIP BEADS

鐵氧體疊層片式磁珠 (尖峰型) FERRITE CHIP BEADS

OPERATING TEMP.	-40~+85°C
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● 特征 FEATURES

- 良好的可焊性，適合于回流焊和波峰焊。
- 無引綫結構，適合于自動貼片安裝。
- 無機材料，獨石結構，具有高度可靠性。
- Excellent solderability and high heat resistance for either reflow or wave soldering.
- No lead, ideal for SMT.
- Monolithic inorganic material construction for high reliability.

● 應用 APPLICATIONS

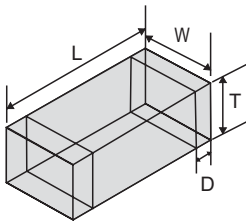
- 計算機及其外圍總綫、通訊設備、數字視聽產品和攝錄一體機。
- Computers and peripherals, Communication equipments, digital TV sets, VTRS.

● 產品規格型號的表示方法 ORDERING CODE

$\frac{CBY}{①}$ $\frac{201209}{②}$ $\frac{A}{③}$ $\frac{121}{④}$ $\frac{T}{⑤}$

① 產品代號 Product Code		② 規格尺寸(L×W×T) (mm) Dimensions		③ 材料代號 Material Code	④ 阻抗(Ω) Impedance		⑤ 包裝方式 Packaging Style	
CBY	尖峰型磁珠 Sharp Type Beads	100505	1.0×0.5×0.5	A	實例 Example		T	卷帶盤裝 Tape & Reel
		160808	1.6×0.8×0.8		110	11	B	散裝 Bulk
		201209	2.0×1.2×0.9		121	120		
		321609	3.2×1.6×0.9		221	220		

● 外形尺寸 SHAPE AND DIMENSIONS



unit: mm(inch)

Part No.	L	W	T	D
100505 (0402)	1.0±0.15 (0.040±0.006)	0.5±0.15 (0.020±0.006)	0.5±0.15 (0.020±0.006)	0.25±0.10 (0.010±0.004)
160808 (0603)	1.6±0.2 (0.063±0.008)	0.8±0.2 (0.031±0.008)	0.8±0.2 (0.031±0.008)	0.3±0.2 (0.01±0.008)
201209 (0805)	2.0±0.2 (0.079±0.008)	1.2±0.2 (0.047±0.008)	0.9±0.2 (0.031±0.008)	0.5±0.3 (0.020±0.012)
321609 (1206)	3.2±0.2 (0.126±0.008)	1.6±0.2 (0.063±0.008)	0.9±0.2 (0.035±0.008)	0.5±0.3 (0.020±0.012)

• 電性能參數 ELECTRICAL CHARACTERISTICS

1005 TYPE

Part No.	Impedance(Ω) At 100MHz	DCR (Ω)Max	Ir (mA)Max
CBY100505U070	0~11	0.10	300
CBY100505U190	12~25	0.10	300
CBY100505U260	26 \pm 25%	0.20	300
CBY100505U310	31 \pm 25%	0.20	300
CBY100505U600	60 \pm 25%	0.35	200
CBY100505U101	100 \pm 25%	0.50	150
CBY100505U121	120 \pm 25%	0.50	150
CBY100505U151	150 \pm 25%	0.55	150
CBY100505U221	220 \pm 25%	0.70	150
CBY100505U301	300 \pm 25%	0.80	100
CBY100505U501	500 \pm 25%	1.10	100
CBY100505U601	600 \pm 25%	1.30	100
CBY100505U801	800 \pm 25%	1.40	50

1608 TYPE

Part No.	Impedance(Ω) At 100MHz	DCR (Ω)Max	Ir (mA)Max
CBY160808A070	0~11	0.10	600
CBY160808A110	7~15	0.20	500
CBY160808A260	26 \pm 25%	0.25	400
CBY160808A310	31 \pm 25%	0.25	400
CBY160808A500	50 \pm 25%	0.30	300
CBY160808A700	70 \pm 25%	0.30	300
CBY160808A800	80 \pm 25%	0.30	300
CBY160808A101	100 \pm 25%	0.35	200
CBY160808A121	120 \pm 25%	0.35	200
CBY160808A151	150 \pm 25%	0.35	200
CBY160808A181	180 \pm 25%	0.40	200
CBY160808A221	220 \pm 25%	0.40	200
CBY160808A301	300 \pm 25%	0.50	150
CBY160808A501	500 \pm 25%	0.60	150
CBY160808A601	600 \pm 25%	0.70	100
CBY160808A801	800 \pm 25%	0.80	100
CBY160808A102	1000 \pm 25%	0.90	100
CBY160808A122	1200 \pm 25%	1.00	100

鐵氧體疊層片式磁珠 (尖峰型)
FERRITE CHIP BEADS

2012 TYPE

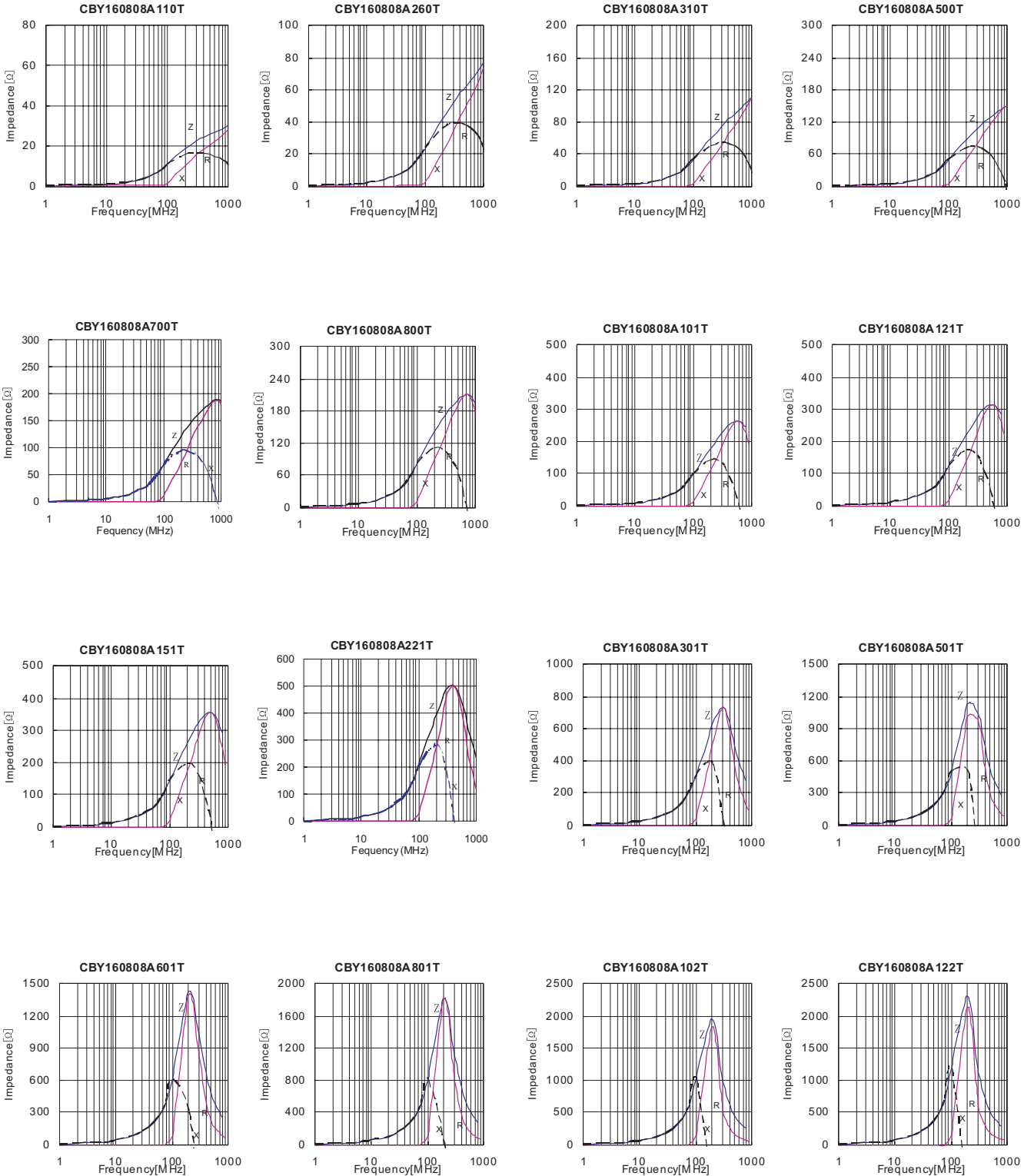
Part No.	Impedance(Ω) At 100MHz	DCR (Ω)Max	Ir (mA)Max
CBY201209A110	7~15	0.15	600
CBY201209A190	12~25	0.15	600
CBY201209A260	26 \pm 25%	0.20	400
CBY201209A310	31 \pm 25%	0.20	400
CBY201209A500	50 \pm 25%	0.25	400
CBY201209A600	60 \pm 25%	0.25	400
CBY201209A800	80 \pm 25%	0.25	400
CBY201209A121	120 \pm 25%	0.25	300
CBY201209A151	150 \pm 25%	0.25	300
CBY201209A181	180 \pm 25%	0.30	300
CBY201209A221	220 \pm 25%	0.30	300
CBY201209A301	300 \pm 25%	0.30	200
CBY201209A501	500 \pm 25%	0.35	200
CBY201209A601	600 \pm 25%	0.40	200
CBY201209A801	800 \pm 25%	0.45	150
CBY201209A102	1000 \pm 25%	0.50	100
CBY201209A122	1200 \pm 25%	0.60	100
CBY201209A152	1500 \pm 25%	0.70	50

3216 TYPE

Part No.	Impedance(Ω) At 100MHz	DCR (Ω)Max	Ir (mA)Max
CBY321609A190	12~25	0.10	500
CBY321609A260	26 \pm 25%	0.10	500
CBY321609A310	31 \pm 25%	0.10	500
CBY321609A700	70 \pm 25%	0.20	400
CBY321609A800	80 \pm 25%	0.20	300
CBY321609A101	100 \pm 25%	0.30	300
CBY321609A121	120 \pm 25%	0.30	300
CBY321609A151	150 \pm 25%	0.30	300
CBY321609A221	220 \pm 25%	0.30	300
CBY321609A301	300 \pm 25%	0.35	300
CBY321609A501	500 \pm 25%	0.35	200
CBY321609A601	600 \pm 25%	0.35	200
CBY321609A801	800 \pm 25%	0.40	200
CBY321609A102	1000 \pm 25%	0.50	200
CBY321609A122	1200 \pm 25%	0.60	100
CBY321609A202	2000 \pm 25% $\text{\textcircled{a}}$ 50MHz	1.00	50

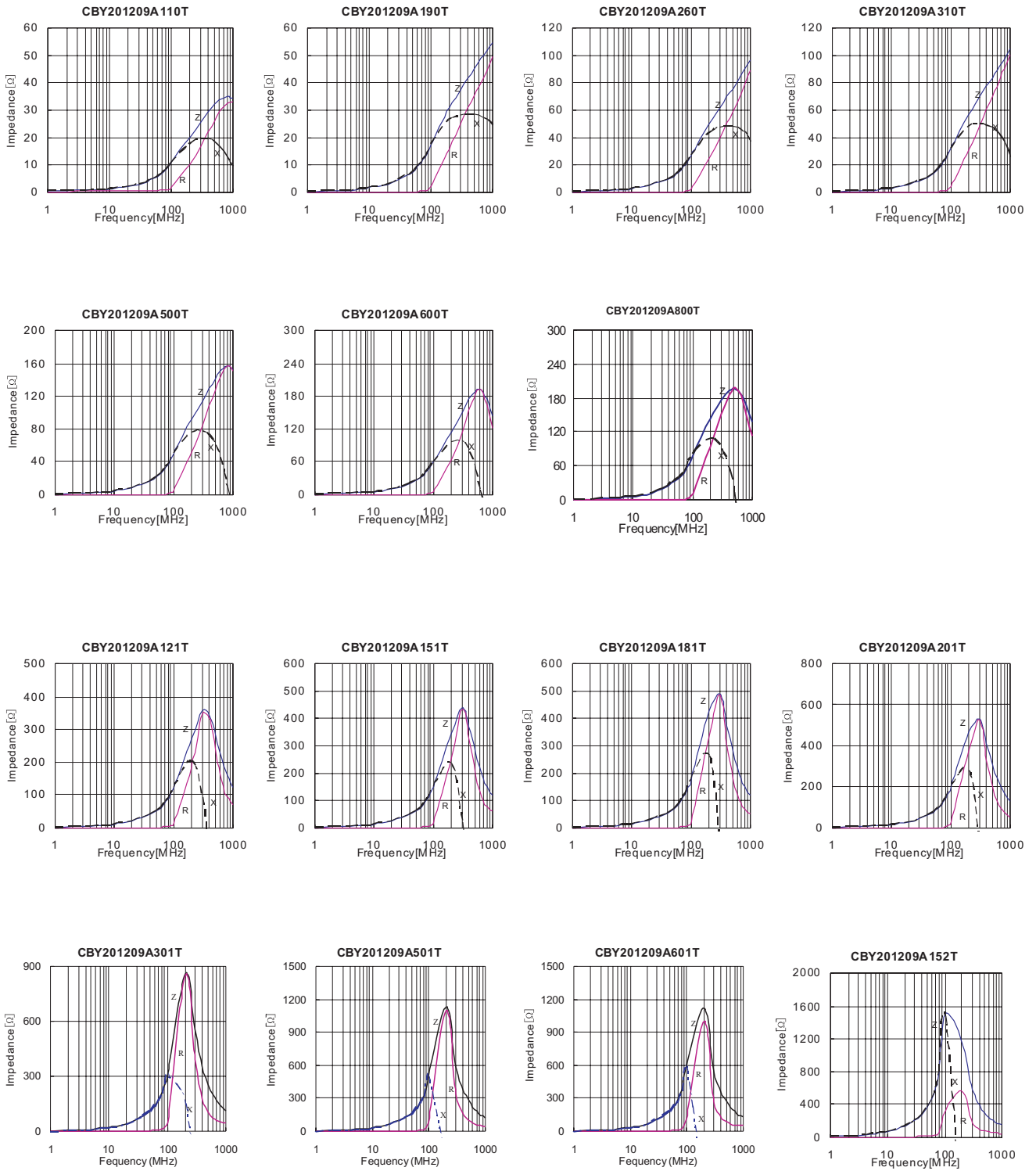
鐵氧體疊層片式磁珠 (尖峰型)
FERRITE CHIP BEADS

1608 SERIES



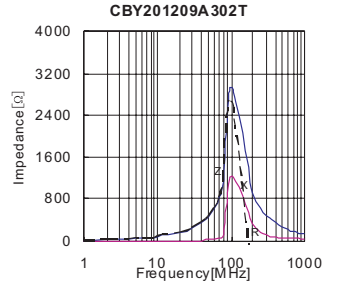
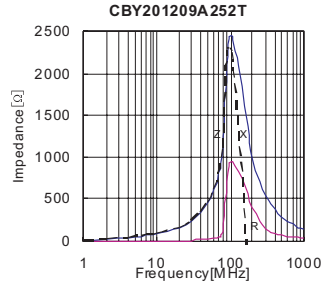
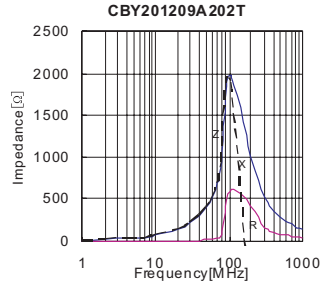
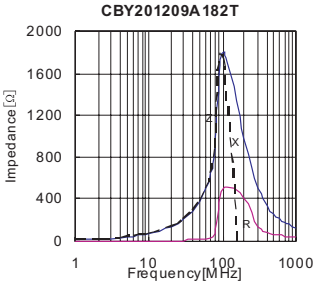
■ 鐵氧體疊層片式磁珠 (尖峰型)
FERRITE CHIP BEADS

2012 SERIES

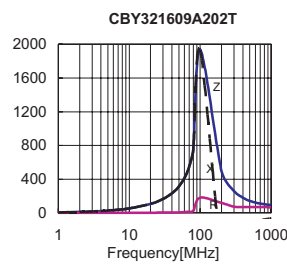
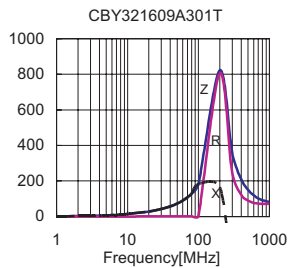
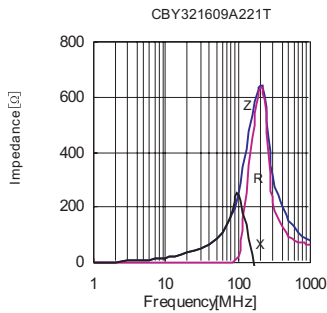
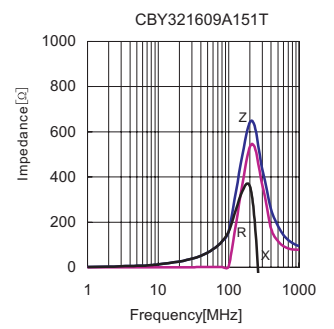
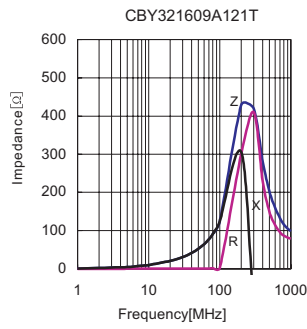
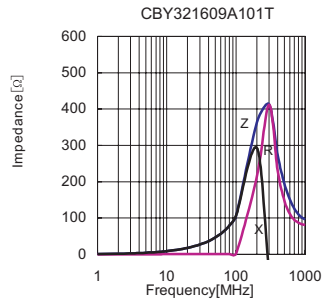
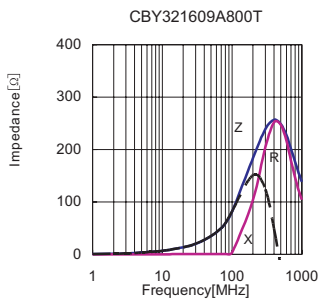
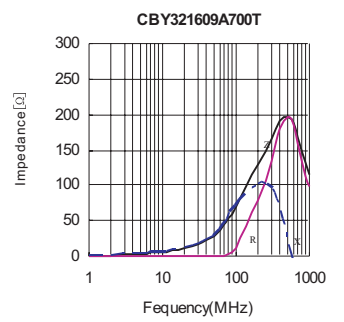
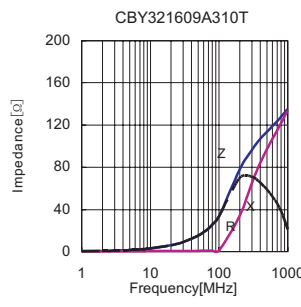
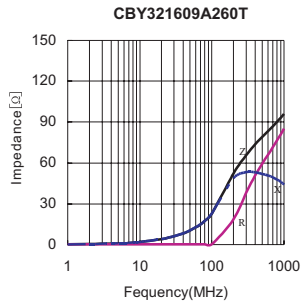
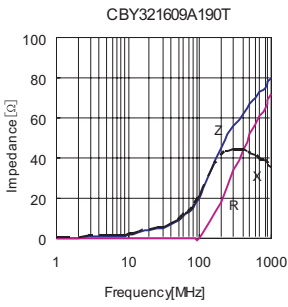


鐵氧體疊層片式磁珠 (尖峰型)
FERRITE CHIP BEADS

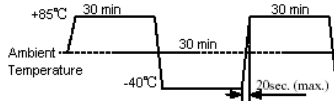
鐵氧體疊層片式磁珠 (尖峰型)
FERRITE CHIP BEADS

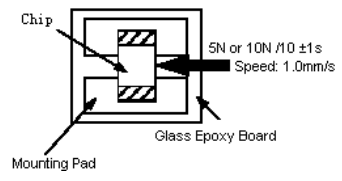
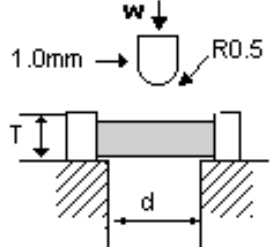


3216 SERIES



■ 可靠性測試
RELIABILITY TESTING

Type	Item	Specified value	Test methods
1	Operating temperature range	-40 to +125°C	
2	Storage temperature range	-10 to +40°C	
3	Solderability	At least 90% of terminal electrode is covered by new solder	Solder temperature: 230±5°C Duration: 4±1S Preheating temperature: 120 to 150°C Preheating time: 60S immersion into the colophony flux for 3 to 5 sec. Flux: immersion into methanol solution with colophony for 3 to 5 sec. Immersion speed: 25mm/sec
4	Resistance to soldering	Appearance: No significant abnormality. At least 75% of terminal electrode is covered by new solder Impedance change: within ±20% Inductor change: within ±10%	Solder temperature: 260±5°C Duration: 10±0.5S Preheating temperature: 120 to 150°C Preheating time: 60S immersion into the colophony flux for 3 to 5 sec. Flux: immersion into methanol solution with colophony for 3 to 5 sec. Immersion speed: 25mm/sec
5	Thermal shock	Appearance: No significant abnormality. Impedance change: within ±30% Inductor change: within ±10% Q value change(ferrite):within ±30% Q value change(ceramic):within ±20%	Temperature: -40°C for 30±3min +85°C for 30±3min Transforming interval :max 20 sec Number of cycles: 32 
6	Loading at low temperature	Appearance: No significant abnormality. Impedance change: within ±20% Inductor change: within ±10%	Temperature: -55±2°C Duration: 500 ⁺²⁴ ₋₀ hrs
7	Loading at high temperature	Appearance: No significant abnormality. Impedance change: within ±30% Inductor change: within ±10% Q value change(ferrite):within ±30% Q value change(ceramic):within ±20%	Temperature: 85±2°C Duration: 1000 ⁺²⁴ ₋₀ hrs Applied current: Rated current
8	Loading under Damp Heat	Appearance: No significant abnormality. Impedance change: within ±30% Inductor change : within ±10% Q value change(ferrite):within ±30% Q value change(ceramic):within ±20%	Temperature: 55±2°C Duration: 500 ⁺²⁴ ₋₀ hrs Humidity: 90 to 95%RH Applied current: Rated current

Type	Item	Specified value	Test methods								
9	Vibration	Appearance: No significant abnormality. Impedance change: within $\pm 30\%$ Inductor change: within $\pm 10\%$ Q value change (ferrite): within $\pm 30\%$ Q value change (ceramic): within $\pm 20\%$	Amplitude: 1.5mm Directions: 2hrs each in X Y Z direction Frequency range: 10 to 55 to 10Hz (min) Aookued firce: 5N force for 1005 and 1608 series. 10N force for 2012、3216、3225、4516、4532 series. Keep time: $10 \pm 1S$								
10	Adhesion of electrode	The termination and body should be no damage	Applied force: 5N force for 1005 and 1608 series. 10N force for 2012、3216、3225、4516、4532series. Keep time : $10 \pm 1S$ 								
11	Resistance to pressure of substrate	The body shall not be damaged by forces applied on the right. <table border="1" data-bbox="454 1209 949 1288"> <tbody> <tr> <td>d</td> <td>1.3</td> <td>1.3</td> <td>2.0</td> </tr> <tr> <td>w</td> <td>2.0</td> <td>3.0</td> <td>4.0</td> </tr> </tbody> </table>	d	1.3	1.3	2.0	w	2.0	3.0	4.0	
d	1.3	1.3	2.0								
w	2.0	3.0	4.0								

Note: When there are questions concerning, measurement shall be made after 24 ± 2 hrs of recovery under the standard condition.

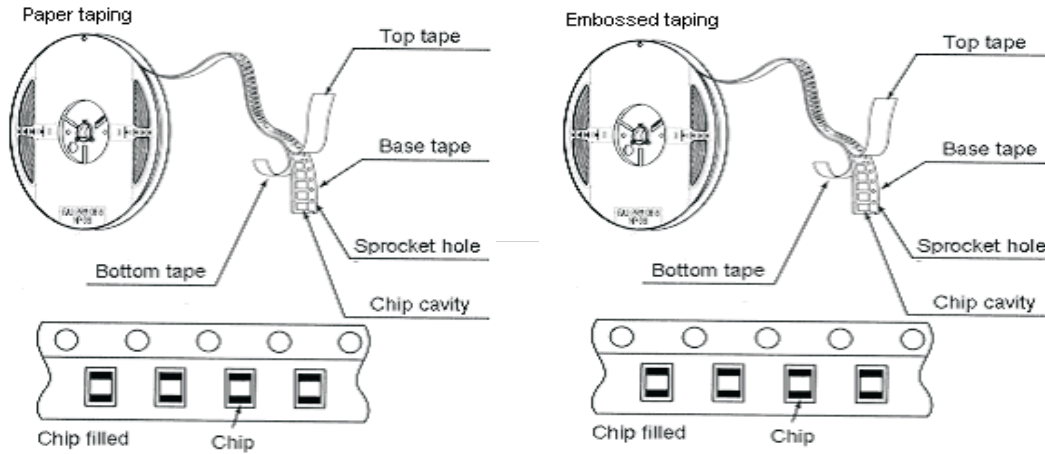
包裝PACKAGING

(VHF、CMI、CBG、CBW、CBH、CBY、CBA、CBM SERIES)

STANDAE QUANTITY

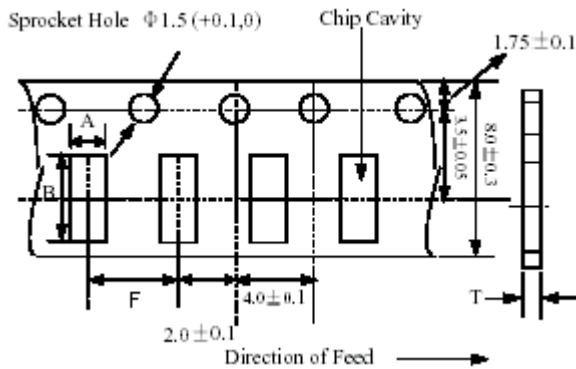
Type	1000505	160808	201209	321609	321611	322513	451616	453215	321609 (磁珠排)
Quantity(pcs)	10000	4000	4000	4000	3000	3000	5000	3000	3000

TAPING DRAWINGS



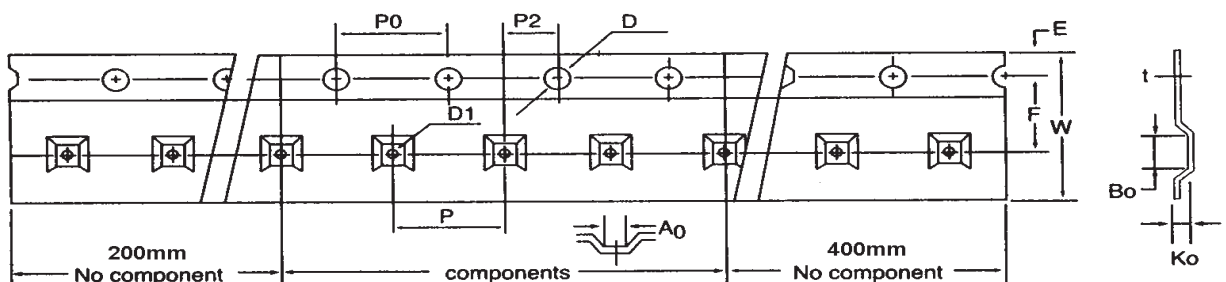
TAPING DIMENSIONS (UNIT: mm)

Paper tape



Part NO.	A	B	F	T
100505	0.65 ± 0.1	1.15 ± 0.1	2.0 ± 0.05	0.62max
160808	1.1 ± 0.1	1.9 ± 0.1	4.0 ± 0.05	1.1max
201209	1.5 ± 0.1	2.3 ± 0.1	4.0 ± 0.05	1.1max
321609	1.9 ± 0.1	3.5 ± 0.1	4.0 ± 0.05	0.97max

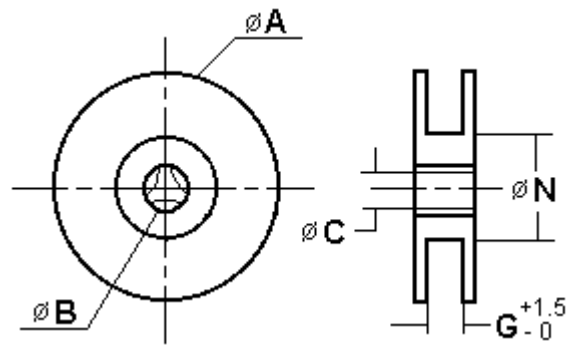
Embossed tape



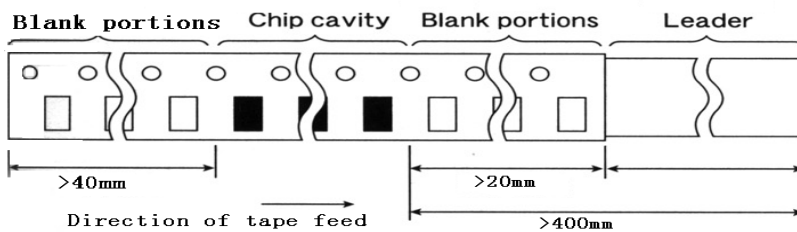
	2012	3216	3225	4516	4532	3216(磁珠排)
W	8.1+/-0.2	8.1+/-0.2	8.1+/-0.2	12.0+/-0.2	12.0+/-0.2	8.1+/-0.2
P	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10	8.0+/-0.10	4.0+/-0.10
E	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10
F	3.50+/-0.10	3.50+/-0.10	3.50+/-0.10	5.50+/-0.10	5.50+/-0.10	3.50+/-0.10
D	1.55+/-0.05	1.55+/-0.05	1.55+/-0.05	1.55+/-0.05	1.55+/-0.05	1.55+/-0.05
D1	1.50 ^{+0.25} ₋₀	1.50 ^{+0.25} ₋₀	1.50 ^{+0.25} ₋₀	1.50 ^{+0.25} ₋₀	1.50 ^{+0.25} ₋₀	1.50 ^{+0.25} ₋₀
P ₀	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10
P ₀ 10	40.0+/-0.20	40.0+/-0.20	40.0+/-0.20	40.0+/-0.20	40.0+/-0.20	40.0+/-0.20
P2	2.0+/-0.05	2.0+/-0.05	2.0+/-0.05	2.0+/-0.05	2.0+/-0.05	2.0+/-0.05
A ₀	1.52+/-0.10	1.90+/-0.10	2.80+/-0.10	1.93+/-0.10	3.66+/-0.10	1.90+/-0.10
B ₀	2.41+/-0.10	3.51+/-0.10	3.50+/-0.10	4.95+/-0.10	4.95+/-0.10	3.51+/-0.10
t	0.23+/-0.10	0.23+/-0.10	0.23+/-0.10	0.23+/-0.10	0.23+/-0.10	0.23+/-0.10
K ₀	1.35+/-0.10	1.27+/-0.10	1.55+/-0.10	1.85+/-0.10	1.74+/-0.10	1.10+/-0.10

• REEL DIMENSIONS(UNIT:mm)

	A	B	C	N	G
CF-8	178±2.0	22±2.0	12.5±1.5	57±2.0	8
CF-12	330±2.0	22±2.0	12.5±1.5	98±2.0	12



• LEADER AND BLANK PORTION



• PEELING OFF FORCE : 0.05 to 0.7N in the direction show below.

