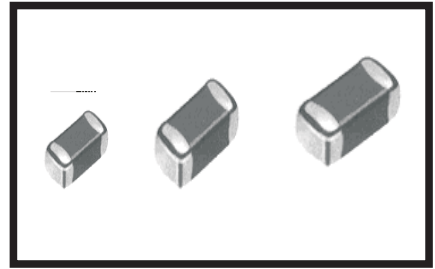


鐵氧體疊層片式磁珠 (低頻高阻型) FERRITE CHIP BEADS

鐵氧體疊層片式磁珠 (低頻高阻型) FERRITE CHIP BEADS

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

- 高阻磁珠在低頻下具有高的“R”值，能有效阻止波形的衰減。
- CBH series beads exhibit high resistance at low frequency, which makes it stop the reduction of the wave-form effectively.

• 應用 APPLICATIONS

- 用于筆記本電腦、數碼相機等的抗干擾。
- Applied in portable computer and digital cameras.

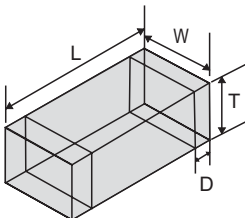
• 產品規格型號的表示方法 ORDERING CODE

CBH	201209	W	121	T
①	②	③	④	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	
CBH	低頻高阻型磁珠 HIGH “R” BEADS	100505	1.0×0.5×0.5	W	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 (0.035±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
CBH100505W310	31 \pm 25%	0.20	300
CBH100505W600	60 \pm 25%	0.35	200
CBH100505W800	80 \pm 25%	0.40	200
CBH100505W121	120 \pm 25%	0.50	150
CBH100505W181	180 \pm 25%	0.60	150
CBH100505W301	300 \pm 25%	0.80	100
CBH100505W501	500 \pm 25%	1.1	100
CBH100505W601	600 \pm 25%	1.3	100

1608 TYPE

Part No.	Impedance(Ω) At 100MHz	DCR (Ω)Max	Ir (mA)Max
CBH160808W800	80 \pm 25%	0.20	300
CBH160808W121	120 \pm 25%	0.20	200
CBH160808W181	180 \pm 25%	0.40	200
CBH160808W221	220 \pm 25%	0.40	200
CBH160808W301	300 \pm 25%	0.45	150
CBH160808W601	600 \pm 25%	0.60	100
CBH160808W801	800 \pm 25%	0.70	100
CBH160808W102	1000 \pm 25%	0.90	100

2012 TYPE

Part No.	Impedance(Ω) At 100MHz	DCR (Ω)Max	Ir (mA)Max
CBH201209W800	80 \pm 25%	0.25	400
CBH201209W121	120 \pm 25%	0.25	400
CBH201209W151	150 \pm 25%	0.25	400
CBH201209W221	220 \pm 25%	0.30	400
CBH201209W301	300 \pm 25%	0.35	400
CBH201209W501	500 \pm 25%	0.40	200
CBH201209W601	600 \pm 25%	0.45	200
CBH201209W801	800 \pm 25%	0.50	150
CBH201209W102	1000 \pm 25%	0.60	100

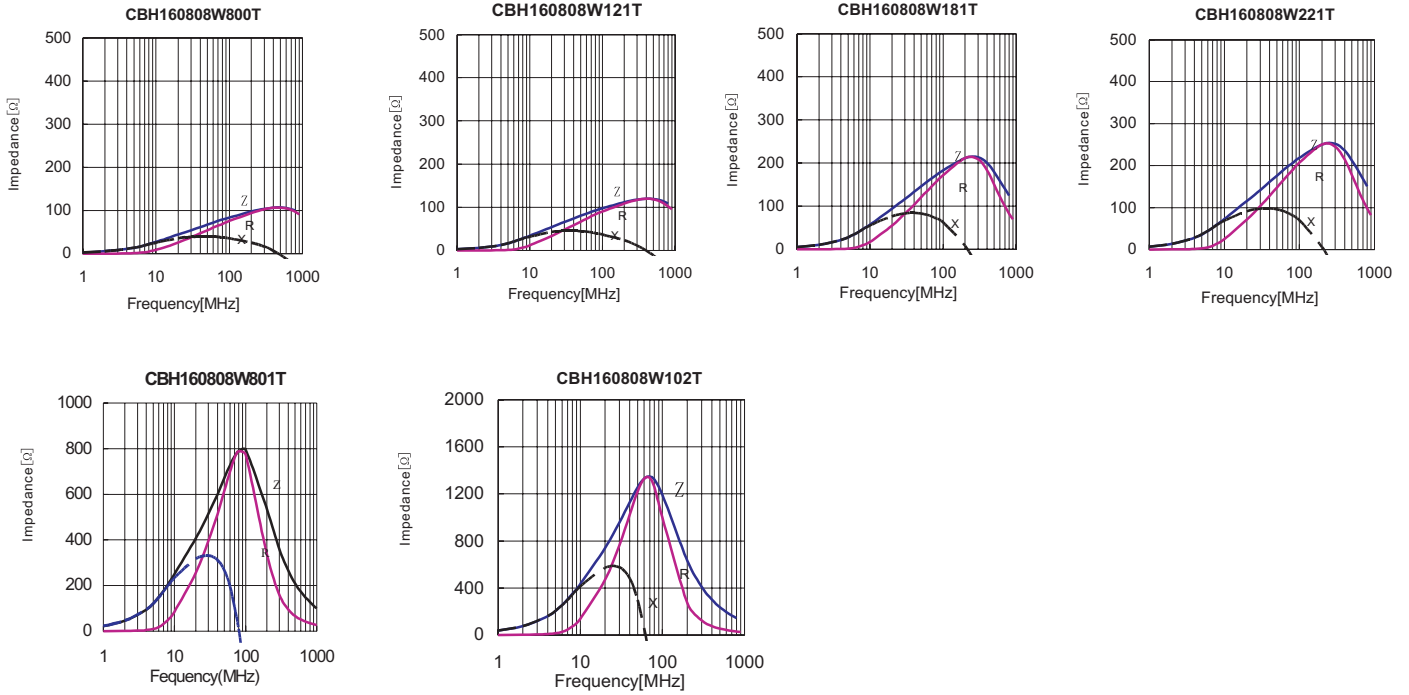
3216 TYPE

Part No.	Impedance(Ω) At 100MHz	DCR (Ω)Max	Ir (mA)Max
CBH321609W260	26 \pm 25%	0.10	1000
CBH321609W121	120 \pm 25%	0.20	1000
CBH321609W301	300 \pm 25%	0.25	300
CBH321609W501	500 \pm 25%	0.30	200
CBH321609W601	600 \pm 25%	0.35	200
CBH321609W801	800 \pm 25%	0.50	200

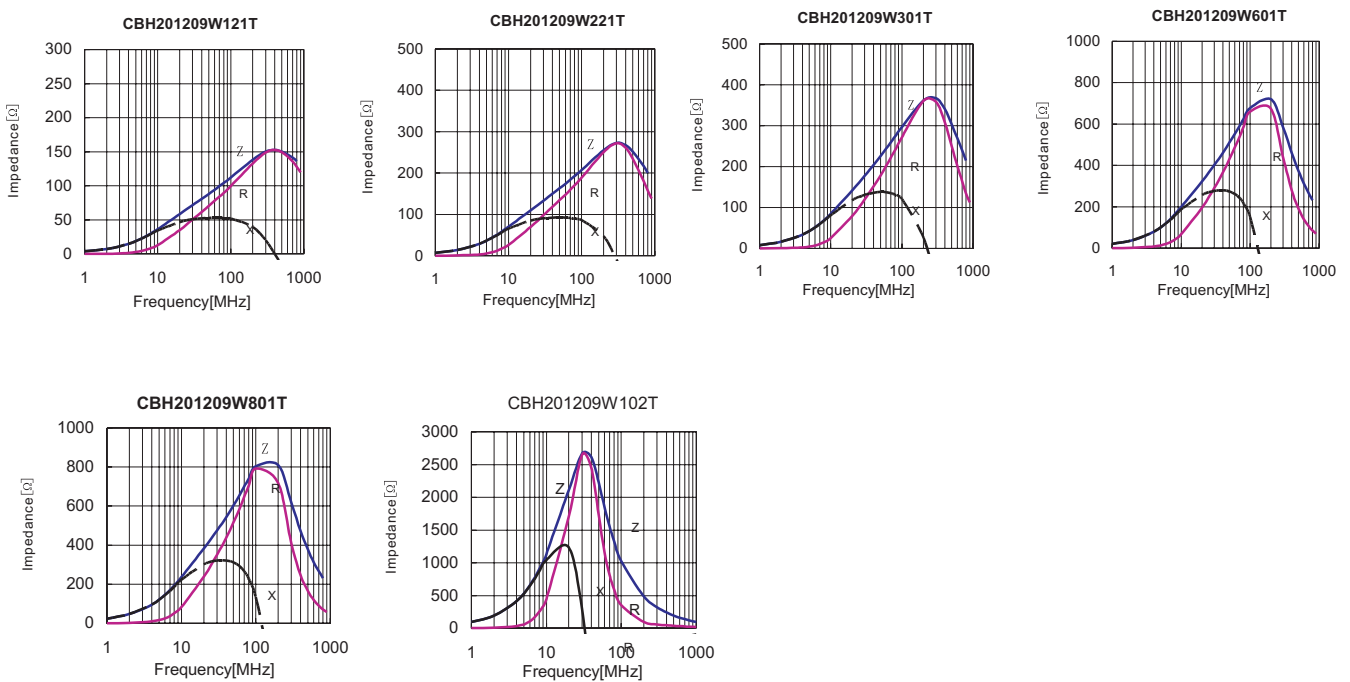
鐵氧體疊層片式磁珠 (低頻高阻型) FERRITE CHIP BEADS

鐵氧體疊層片式磁珠 (低頻高阻型) FERRITE CHIP BEADS

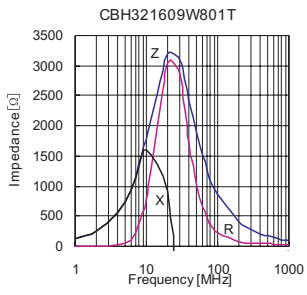
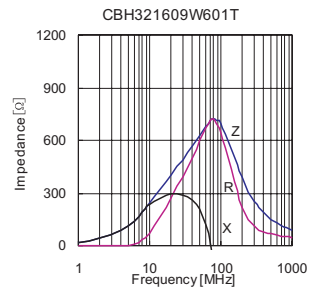
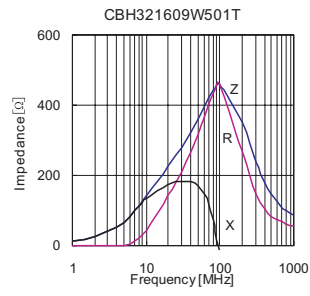
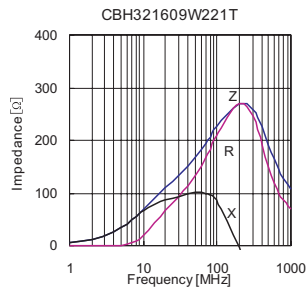
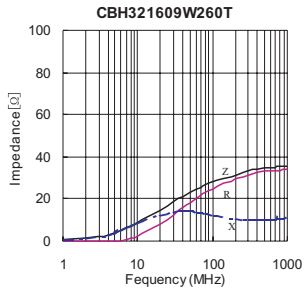
1608 SERIES



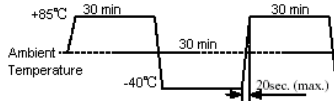
2012 SERIES

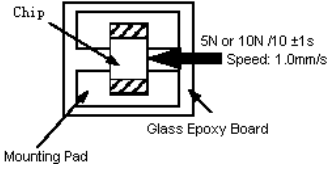
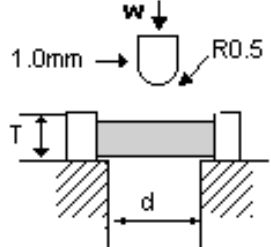


3216 SERIES



■ 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) Applied force: 5N force for 1005 and 1608 series. 10N force for 2012, 3216, 3225, 4516, 4532 series. Keep time: 10 ± 1 S								
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, 4532 series. Keep time: 10 ± 1 S 								
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.

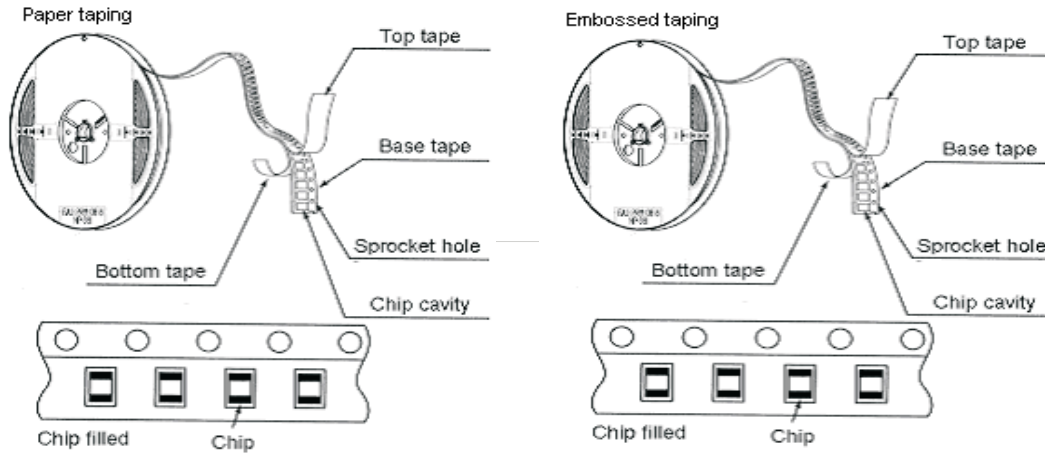
包裝PACKAGING

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

STANDAE QUANTITY

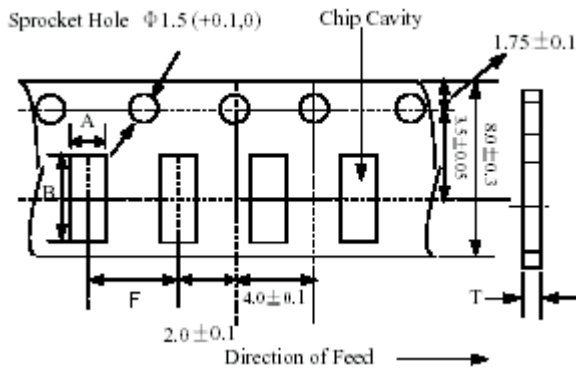
Type	1000505	160808	201209	321609	321611	322513	451616	453215	321609 (磁珠排)
Quantity(pcs)	10000	4000	4000	4000	3000	3000	5000	3000	3000

TAPING DRAWINGS



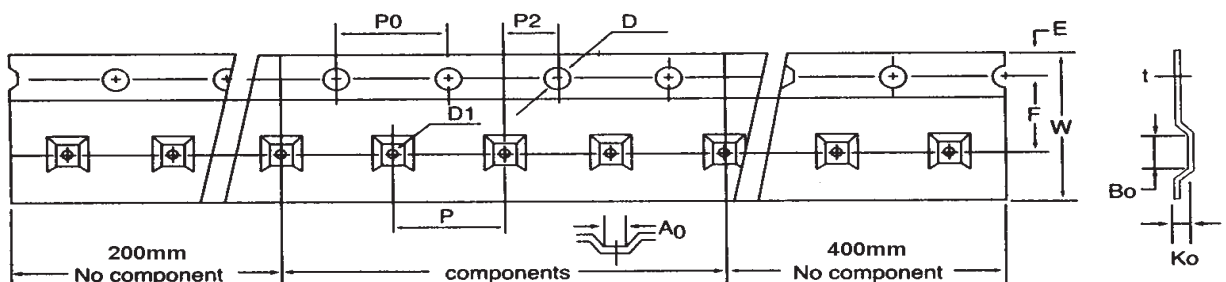
TAPING DIMENSIONS (UNIT: mm)

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

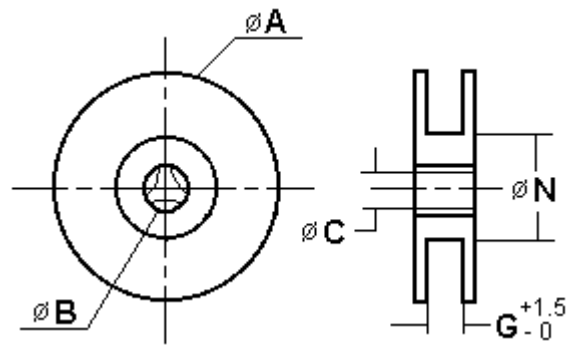
Embossed tape



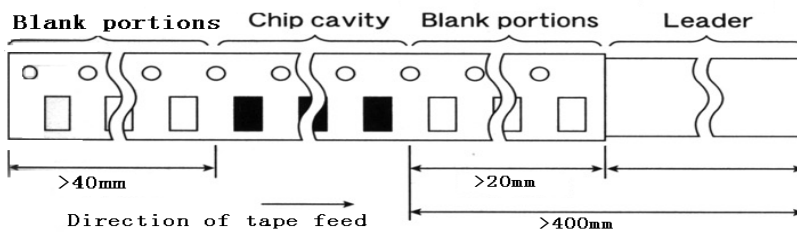
	2012	3216	3225	4516	4532	3216(磁珠排)
W	8.1+/-0.2	8.1+/-0.2	8.1+/-0.2	12.0+/-0.2	12.0+/-0.2	8.1+/-0.2
P	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10	4.0+/-0.10	8.0+/-0.10	4.0+/-0.10
E	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10	1.75+/-0.10
F	3.50+/-0.10	3.50+/-0.10	3.50+/-0.10	5.50+/-0.10	5.50+/-0.10	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.

