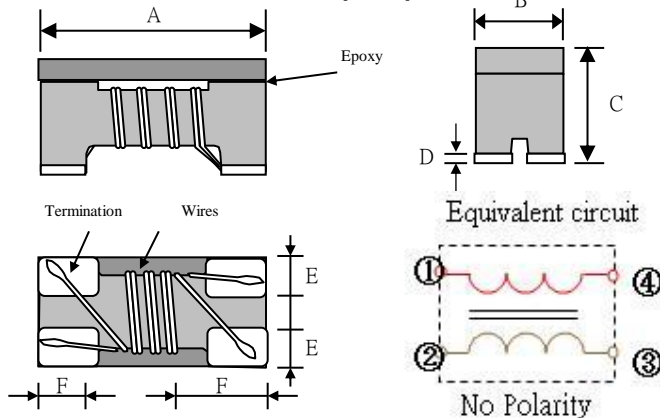


BCCUB-T4P-2012HS SERIES

SPECIFICATION

ITEM P/N	BCCUB-T4P-2012HS-SERIES	TEST INSTRUMENT	4287A / 4339B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

PACKING DIMENSIONS (mm)



BCCUB-T4P-2012HS	Dimensions
A	2.0 ± 0.2
B	1.2 ± 0.2
C	1.2 ± 0.2
D	0.2 ± 0.1
E	0.40Typ.
F	0.45Typ.

EXPLANATION OF PART NUMBERS

BCCUB	-	T4P	-	2012HS	-	900	-	T
(1)		(2)		(3)		(4)		(5)

- (1) Product name
- (2) Shapes and dimensions
- (3)Shielding Type for USB3.0/7.5G
- (4) Impedance 【 at 100MHz 】
900:90Ω
- (5) Tolerance
S=±25% ; M=±20%

ELECTRICAL CHARACTERISTICS

P/N	Z(Ω)	DCR (Ω)	Idc(mA)	Rated Voltage	Insulation Resistance	Cut-off Frequency	Characteristic Resistance
	Common Mode			Vdc			
	Impedance at 100MHz	[Max]	[Max]	(V)Typical	(MΩ)Min.	(GHz)	(Ω)
BCCUB-T4T-2012HS-120T	12	0.25	420	20	10	7.5 typ.	100 typ.
BCCUB-T4T-2012HS-240T	24	0.25	420	20	10	7.5 typ.	100 typ.
BCCUB-T4T-2012HS-250T	25	0.22	420	20	10	7.5 typ.	100 typ.
BCCUB-T4T-2012HS-320T	32	0.25	400	20	10	7.5 typ.	100 typ.
BCCUB-T4T-2012HS-600T	60	0.30	300	20	10	7.5 typ.	100 typ.
BCCUB-T4T-2012HS-900T	90	0.30	300	20	10	7.5 typ.	100 typ.

Operating temperature : -25 to +85°C

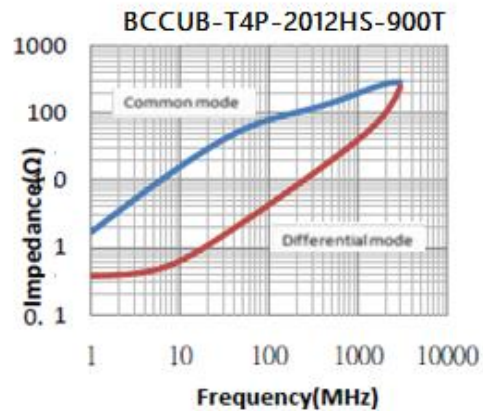
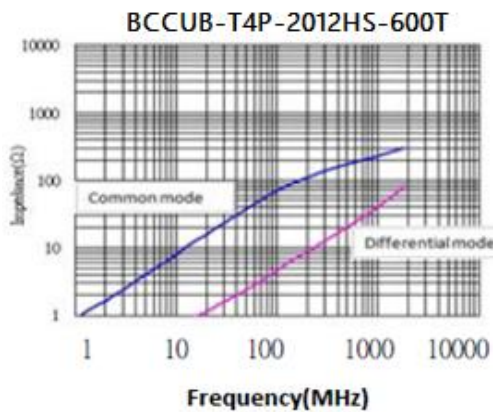
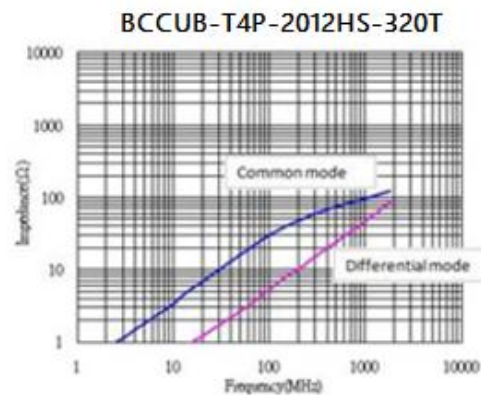
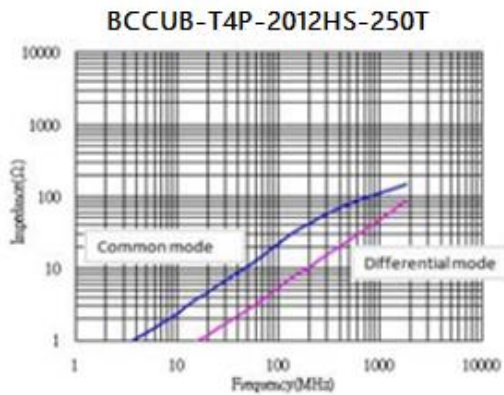
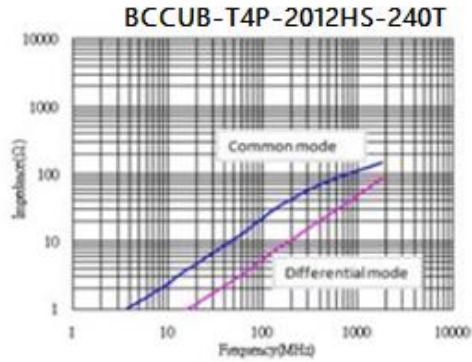
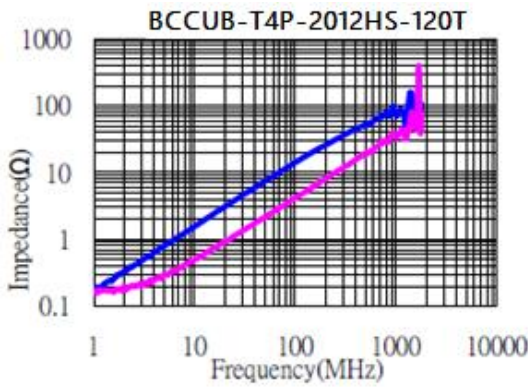
Storage temp. and humidity : -40 to +85°C ,70%RH max

BCCUB-T4P-2012HS SERIES

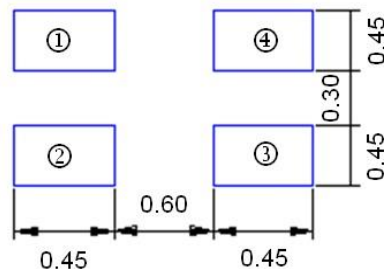
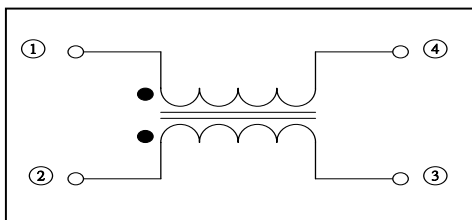
CHARACTERISTICS

ITEM P/N	BCCUB-T4P-2012HS-SERIES	TEST INSTRUMENT	4287A / 4339B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

PERFORMANCE CURVES



Equivalent Circuit & Recommended Footprint



BCCUB-T4P-2012HS SERIES

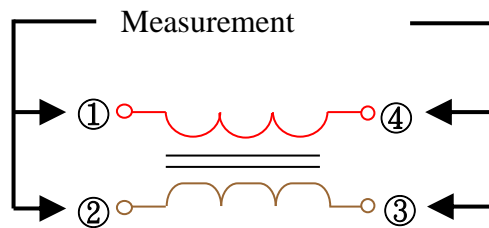
CHARACTERISTICS

ITEM P/N	BCCUB-T4P-2012HS-SERIES	TEST INSTRUMENT	4287A / 4339B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

Test Equipment

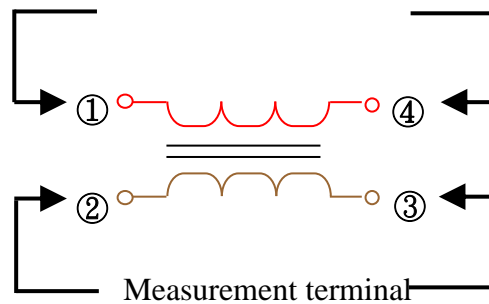
Impedance

Measured by using Agilent 4291A RF Impedance Analyzer.



DC Resistance

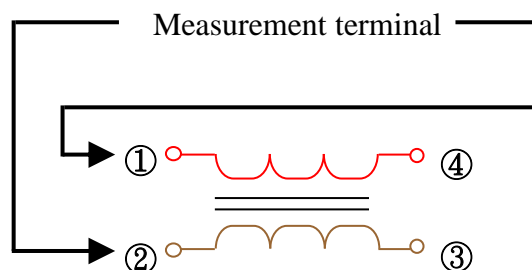
Measured by using Chroma 16502 mill ohm meter.



Insulation Resistance

Measured by using Chroma 19073

Measurement voltage : 50v , Measurement time : 60 sec.

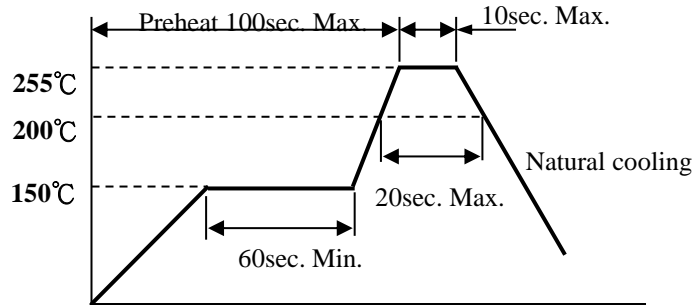


BCCUB-T4P-2012HS SERIES

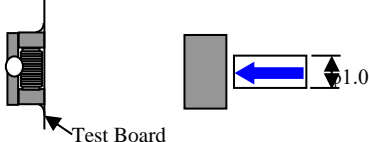
RELIABILITY

ITEM P/N	BCCUB-T4P-2012HS-SERIES	TEST INSTRUMENT	4287A / 4339B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

RECOMMENDED SOLDERING TEMP. GRAPH



MECHANICAL RELIABILITY

TEST	Specification & Requirement		Method Used
Solderability	The surface of terminal/pin tested shall be covered with new solder by 90%		Solder heat proof: Preheating: 150 ±10°C 60 seconds Soldering: 230 ±5°C for 3 ±1 sec
Solder Heat Resistance	electrical and mechanical damage Impedance: within ±15% of initial value		Preheating: 150°C 60secs Solder temperature: 260±5°C Flux: rosin Dip time: 10±0.5 secs
Terminal strength	Series No.	F (Kg)	Solder a chip to test substrate and then laterally apply a force in the arrow direction 
	BCCUB-T4P-1210HS	0.2	
	BCCUB-T4P-1608HS	0.5	
	BCCUB-T4P-2012HS	0.5	
	BCCUB-T4P-3216	1.0	

ENDURANCE RELIABILITY

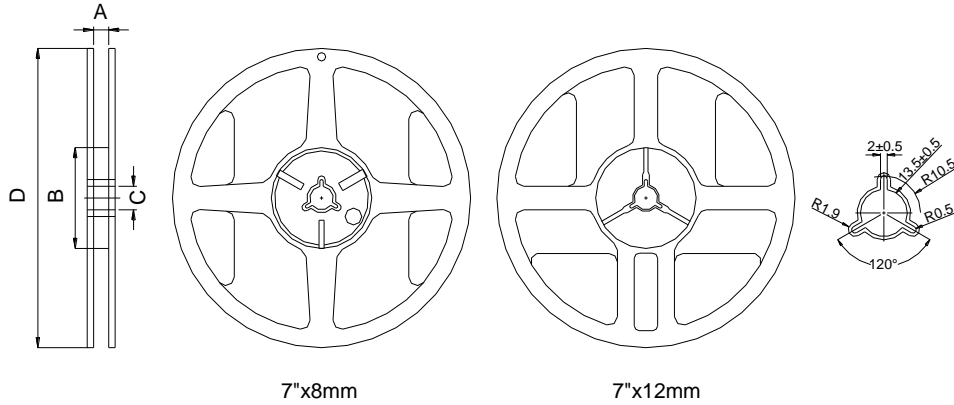
TEST	Specification & Requirement	Method Used
Thermal Shock	mechanical damage	-65°C, (30 mins) -> room temp. (2 mins) -> 125°C, (30 mins) -> room temp. (2 mins)
Humidity Resistance	mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90%
Low Temp. Storing	Impedance change within ± 15% Without mechanical damage	Storing Temp. -40 ±2 °C for total 168 +5/-0 hours
High Temp. Storing	Impedance change within ± 15% Without mechanical damage	Storing Temp. 125 ±2 °C for total 168 +5/-0 hours

BCCUB-T4P-2012HS SERIES

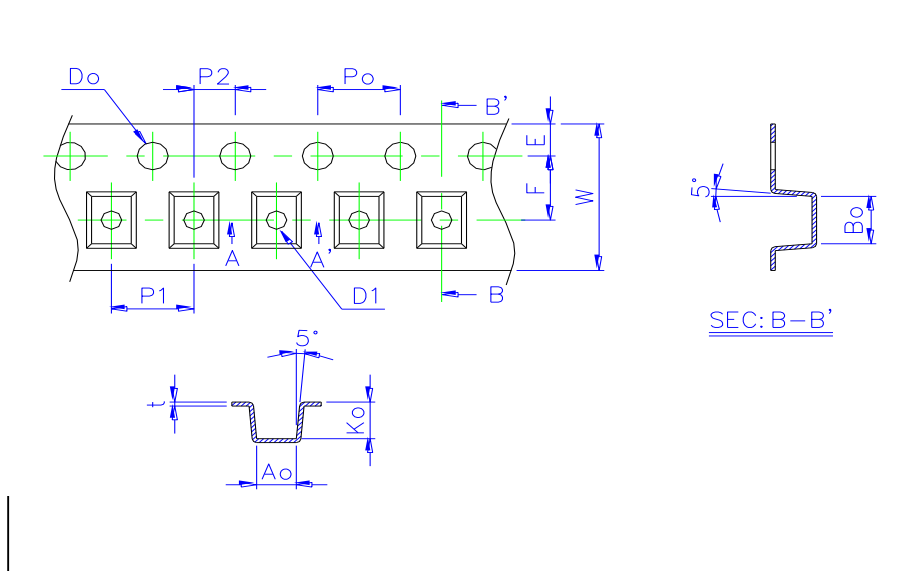
PACKING FOR SMD

ITEM P/N	BCCUB-T4P-2012HS-SERIES	TEST INSTRUMENT	4287A / 4339B
PRODL			J.5V

Reel Dimension



7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2
7"x12mm	13.5±0.5	60±2	13.5±0.5	178±2



Size	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	E(mm)	F(mm)	Po(mm)	P1(mm)	Do(mm)
1210	1.15±0.10	1.40±0.10	0.93±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.5+0.1,-0
1608	1.65±0.10	1.00±0.10	1.18±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.5+0.1,-0
2012	2.35±0.10	1.50±0.10	1.45±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.5+0.1,-0
3216	3.50±0.10	1.88±0.10	2.10±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.5+0.1,-0

Packaging Quantity

Chip Size	1210	1608	2012	3216
8mm/ Reel	3000	2000	2000	2000