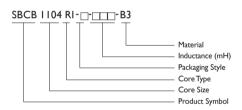


SBCB Series

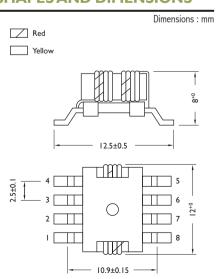


PRODUCT IDENTIFICATION



- Packaging: T: Tape and Reel
- NOTE: YAGEO will add "-N" after original P/N as identification. EX.SBCB1104RIT-330-B3-N

SHAPES AND DIMENSIONS



APPLICATIONS

Attenuating Noise of Analog and Digital Signals for Telecommunication Devices

Prevention of Interference from Amateur Radios, CB Stations, or High Frequency Welders, etc.

OUTLINE

These surface mount filters are specially designed to virtually eliminate the problem of conducted EMI in data line applications. They provide both differential and common mode noise attenuation.

These components contain tremendous electrode straight, solder heat resistance and outstanding solderability. These products are designed for flow, reflow and wave soldering required for surface mounting applications.

FEATURES

These components are compatible with auto insertion equipment and easy installed for PC board.

With Four Lines for Voice and Data Line

Compact and High Performance

ELECTRIAL CHARACTERISTICS

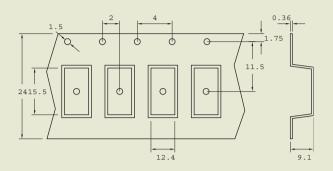
PART NO.	INDUCTANCE TEST FRE		DC RESISTANCE
	(μΗ)	(KHz) 0.6V	(Ω) Max.
SBCB1104RIT-330-B3	25 ~ 50	100	0.07

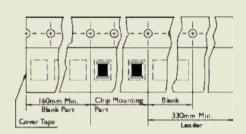
TAPE DIMENSIONS

Dimensions : mm

TAPE MATERIAL

Carrier Tape : Black Conductive Polystyrene - Alloy Cover Type : Black Conductive Polystyrene - Alloy



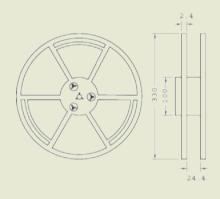


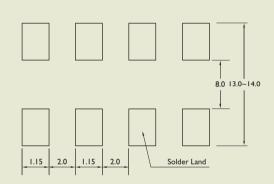
REEL DIMENSIONS

Dimensions : mm

RECOMMENDED PATTERN

Dimensions : mm



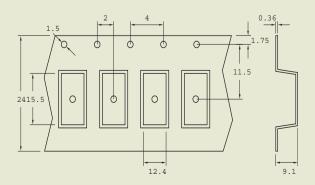


PACKAGING QUANTITY

ТҮРЕ	QUANTITY/REEL
SBCB1104	350

TYPICAL ELECTRICAL CHARACTERISTICS

Test Instruments: HP4192A LF Impedance Analyzer





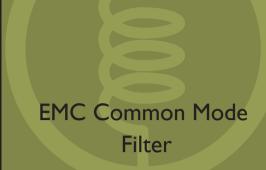
SBCB1104 SERIES RELIABILITY TEST

I-I MECHANICAL PERFORMANCE				
NO. ITEM		SPECIFICATION	TEST CONDITIONS	
1-1-1	Vibration	Appearance : No Damage	Test device shall be soldered on the substrate.	
		L Change : within ±10%	Oscillation Frequency: 10 to 55 to 10Hz for 1Min.	
		Q Change : within ±30%	Amplitude : I.5mm	
		RDC : within Specification	Time: 2Hrs. for each Axis (X,Y & Z), Total 6Hrs.	
I-I-2 Resistance to		Appearance : No Damage	Pre-heating: 150°C, 1Min.	
	Soldering Heat		Solder Composition : Sn/Pb = 63/37	
			Solder Temperature : 260 ± 5°C	
			Immersion Time : 10 ± 1Sec.	
1-1-3	Solderability	The electrodes shall be at least 90% covered	Pre-heating: 150°C, 1Min.	
		with new solder coating.	Solder Composition : Sn/Pb = 63/37	
			Solder Temperature : 230 ± 5°C	
			Immersion Time : 4 ± ISec.	

1-2 ENVIRONMENTAL PERFORMANCE

NO.	ITEM	SPECIFICATION	TEST CONDI	TIONS		
1-2-1	Temperature Shock	perature Shock Appearance : No Damage 10 Cycles (Air to Air) 1 Cycles shall Consist of :			f :	
		L Change : within ±10%	30Min. Exposure to -55°C			
	L Change : within ±30% RDC : within Specification		30Min. Exposui	30Min. Exposure to 125°C		
			15Sec. Max. Transition between Temperatures			
			Measured after Exposure in the Room Condition for 24Hrs.			
-2-2 Temperature Cycle	Temperature Cycle	_	One Cycle			
			Step	Temperature (°C)	Time (Min.)	
			I	-25 ± 3	30	
			2	25 ± 2	3	
			3	85 ± 3	30	
			4	25 ± 2	3	
			Total: 100 Cyc	les		
			Measured after	Exposure in the Room Condit	ion for 24Hrs.	
-2-3	Humidity Resistance	_	Temperature :	40 ± 2°C		
			Relative Humio	lity: 90 ~ 95%		
				s.		
			Measured after Exposure in the Room Condition for 24Hrs.			
-2-4	High Temperature		Temperature : 85 ± 3°C			
	Resistance		Relative Humio	lity: 20%		
			Applied Currer	nt : Rated Current		
				Time: 1000Hrs.		
				Measured after Exposure in the Room Condition for 24Hrs.		
-2-5	Low Temperature		Temperature :	-25 ± 3°C		
	Resistance		Relative Humidity : 0%			
			Time: 1000Hrs.			
			Measured after	Exposure in the Room Condit	ion for 24Hrs.	





SBCB Series is a dual wound common mode choke ideal for common mode noise attenuation in twisted pair cable interfaces as well as IEEE 1394 applications. An excellent impedance balance between two sets of twisted pairs is achieved by winding across a signal core, One SBCB common mode choke coil per interface port is possible with this dual winding configuration.

APPLICATIONS

Preventive measure against USB & IEEE1394 radiation emissions.

Suppresses radiated emissions from peripheral devices.

Personal computer (Desk-top, Note-book) game computer, Digital Camera, etc.

Use of high performance ferrite for excellent high frequency characteristics.

FEATURES

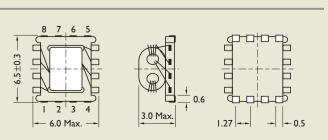
Dual Common-mode choke coils.

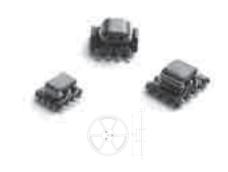
8-pin, half inch-pitch SMD type

SHAPES AND DIMENSIONS

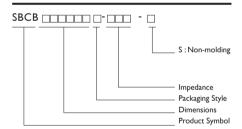
TYPE DIMENSION

SBCB656030-S





PRODUCT IDENTIFICATION

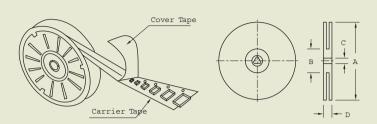


- Packaging: T: Tape and Reel
- NOTE: YAGEO will start torelease lead-free that meet SONY SS-00259's criteria

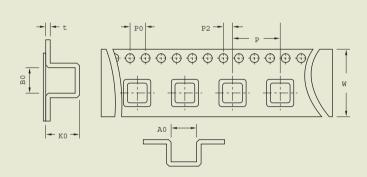
YAGEO will add "-N" after original P/N as identification. EX.SBCB656030T-900-S -N



PACKAGING



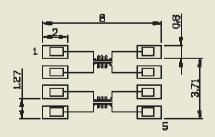
	SBCB656030-S	
Pcs/Reel	1000	
A	330mm	
В	100mm	
С	13.0mm	
D	21.0mm	



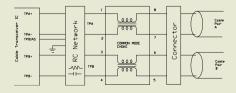
	SBCB656030-S
AO	6.6
В0	6.15
КО	3.5
Р	12
P0	4.0
P2	2.0
W	16.0
t	0.35

RECOMMENDED PATTERN

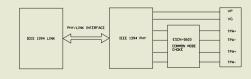
Recommended Pattern



Twisted Pair Cable interface



IEEE 1394 Port



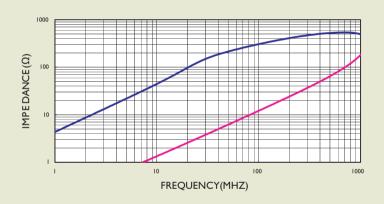
ELECTRICAL CHARACTERISTICS

Model no.	Rated Current (ma) Max.	DC Resistance (Ω/Line)Max.	Withstand Voltage
SBCB656030T	500	0.12	80V DC

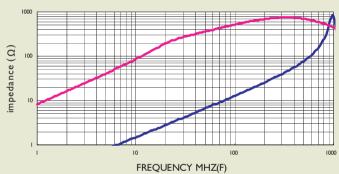
ELECTRICAL CHARACTERISTICS

Part Number	Impedance(Ω) Common Mode		Impedance(Ω) Normal Mode	
	@I0Mhz(Ω)Min	@I00Mhz(Ω)Min	@I0Mhz(Ω)Min	@I00Mhz(Ω)Min
SBCB656030T-900-S	9	60	2	9
SBCB656030T-181-S	15	150	3	16
SBCB656030T-301-S	20	200	3	20
SBCB656030T-601-S	25	480	3	15

SBCB656030T-301-S



S B CB 656030T-601-S



SBCB656030T-181-S

