





Part Number: 0603BC-16NJ

Wirewound Inductor, 16 nH, 0.17 ohm, 3.3 GHz, 700 mA, 0603



## **SPECIFICATION APPROVAL**

PRODUCT : 0603BC-16NJ

Pb-free

CODE NO. : 0603BC-16NJ

CUS. CODE :

SPEC.NO. : C-1916-173(00)

DATE : 8-Apr-11

CUSTOMER APPROVAL

#### **BEC DISTRIBUTION Ltd.**

www.bec.co.uk email: sales@bec.co.uk Phone: +44(0)1844 275824

PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	ΤΟΝΥ	MASCOT

#### Coilcraft series MS1608 alternatives



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PRODUCT	0603BC-	16NJ		COIL		DATE	E	2011/4/8
SPEC.NO.	C-1916-	173(00)	SPEC	IFICA	TION	CODE N	NO.	C01916173
CONFIGURAT	ION & DIM	ENSIONS	:					
	B Overal1						A : 1.8 M B : 1.2 M C : 0.33 D : 1.02 E : 0.45	Iax. m/m Ref. m/m Max. m/m
ELECTRICAL					50/			
	JCTANCE A	1 250MHZ	•	16nH:				
Q :				34	Min.			
DC F	RESISTANC	$E(\Omega)$ :		0.17	Max.			
IDC(1	mA):			700	Max.			
TEST DATA								
			TERISTICS		Т	DIMEI	NSION	
MEAS. ITEM			DCR(Ω)		А	В	C	D
TEST FREQ	250MHz	Min.	Max.		m/m	m/m	m/m	m/m
YOUR	160L.50/	24	0.47		1.0 May	1.2 Max.	0.22 Dof	1.02 May
SPEC.	16nH±5%	34	0.17		1.8 Max.	i.∠ iviax.	0.33 Ref.	1.02 Max.
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SPEC.NO.	C-1916	-173(00)	SPECIFICATION		CODE NO.	C01916173
TEST ITE	CMS	SPE	ECIFICATIONS	TEST	CONDITIONS / 7	TEST METHODS
ELECTRICAL PH	ERFORMA	NCE TEST				
L				HP-4286A WI	TH HP-16193 TEST	FIXTURE.
Ş				HP-4286A WI	TH HP-16193 TEST	FIXTURE.
S.R.F.		DEFED TO S	STANDARD ELEC-	HP-8753D		
DCR			ARACTERISTIC LIST.	HP-4286A		
RATED CURRENT				CHANGE SH	OULD BE LESS THA TEMPERATURE RI	ILS THE IDUCTANCE AN 10% TO INITIAL ISE SHOULD NOT BE
TEMPERATURERISE TEST				1. APPLIED TH	HE ALLOWED DC CU	RRENT FOR 10 MINUTES.
		20°C MAX (△t)		2. TEMPERA	TURE MEASURE B	Y DIGTAL SURFACE
				THERMON		
OVER LOAD TEST		NO EVIDEN DAMAGE	ICE OF ELECTRICAL		IMES OF RATED AI DRS FOR A PERIOD	LOWED DC CURRENT OF 5 MINUTES.
WITHSTANDING V TEST	OLTAGE	NO EVIDEN DAMAGE	CE OF ELECTRICAL		E OF 500VAC APPL Γ TERMINAL AND (	IED BETWEEN CENTER CASE FOR 1
INSULATION RESIS TEST	STANCE	1000 MEGA	-OHMS MIN	100 VDC APP AND CENTE		DUCTOR TERMINALS
MECHANICAL P	PERFORM	ANCE TES	<u>T_</u>			
				SOLDER : TI	N-SILVER-COPPER	a (95.5%/4.0%/0.5%)
				PREHEAT:15	0°C 100s Max.	
SOLDER HEAT RES	ISTANCE	1. COMPONENT SHOULD HAVE NO EVIDENCE OF ELECTRICAL AND		SOLDER TEN		10 Hpr. Natural cooling
				260±5°C		
				DIP TIME:10s Max.		
		MICHANICA	AL DAMAGE	1.AMPLITUDE: 1.5 mm		
VIBRATION TEST		HANGE MORE THAN ±5%		2.FREQUENCY: 10-55-10HZ / 1 MIN		
LOW FREQUENCY	)			3.DIRECTION: X, Y, Z		
				4.DURATION: 2 HRS/X, Y, Z COMPONENT SHOULD BE DROPPED 10 TIMES FROM		

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TEST ITEM	S SPECIFIC	ATIONS	TEST CONI	DITIONS / TEST	METHODS
MECHANICAL F	<u>PERFORMANCE TES</u>	<u>ST</u>			
SOLDERABILITY T	SHOULD BE COV	TRODE	PREHEAT:150°C 120s SOLDER TEMPERATURE:		10 Mpe Natural rooling 50110s
	SOLDER.		260±5℃		1 mne(5)
			DIP TIME:10s Max.		
COMPONENT ADHESION ( PUSH TEST )	4 1bs (ABOUT 1.8	Kg )	THE DEVICE SHOULD BI SOLDERED ( 260±5°C FOF SECONDS ) TO A TINNED SUBSTRATE. A DYNOME GAUGE SHOULD BE APPI THE SIDE OF THE COMPO THE DEVICE MUST WITH MINIMUM FORCE OF 1.81 WITHOUT AILURE OF TH TERMINATION .	E REFLOW R 10 COPPER TER FORCE LIED TO DNENT. I- STAND A Kg	CLASS CPERCY SUBSTRATE OF THE SUBSTSTATE OF THE SUBSTRATE
COMPONENT ADHESION ( PULL TEST )	4 1bs (ABOUT 1.8	Kg)	1.INSERT 10cm WIRE INT REMAINING OPEN EYE B ENDS OF EVEN WIRE LEI UPWARD AND WIND TOO 2. TERMINAL SHALL NOT BEREMARKABLY DAMA	END THE NGTHS GETHER Г	45nn 45nn 100nn
FLEXTURE STREN	THE FORCES API GTH SHOULD NOT DA DIELECTRIC.		SOLDER A CHIP ON A TE SUBSTRATE, BEND THE SUBSTRATE BY 2mm ANI		
RESISTANCE TO SOLVENT TEST	THERE SHOULD CASEDEFORMAT CHANGE IN APPI BITERATION OF	FION, EARANCE OR	INDUCTERS SHALL WITH	ISTAND 6 MINTES (	OF ALCOHOL

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Colcraf	series MS1	608 alterna	tives		DISTRIBUTION LT	
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TEST ITEM	S SPECIFI	ICATIONS	TEST CO	NDITIONS / TES	ST METHODS	
CLIMATIC TESI	-					
TEMPERATURE CHARACTERISTIC			CERAMIC CORE:-40	0°C ~ +125°C		
HUMIDITY TEST			50°C ±2°C / 96±2 HO R.H.:90-95%	URS		
LOW TEMPERATUR STORAGE	EVIDENCE OF EL MICHANICAL DA	MAGE	2.TIME: 48±2 HOURS			
THERMAL SHOCK TEST		2. INDUCTANCE SHOULD NOT HANGE MORE THAN ±10%		INUTES. INUTES. ES		
HIGH TEMPERATU STORAGE	RE		1.APPLIED CURREN 2.TEMPERATURE:+ 3.TIME:48±2 HOUR:	125°C±2°C	URRENT	
NOTE : COMPONE	NT ARE TO BE TESTED .	AFTER 2 HOUR AT	I ROOM TEMPERATU	RE.		
<u>LIFE TEST</u>						
HIGH TEMPERATU LOAD LIFE TEST	RE COMPONENT SHO EVIDENCE OF SH		1. TEMPERATURE: 2. TIME: 1000±12 H0 3. LOAD: ALLOWEI	OURS		
HUMIDITY LOAD L TEST	CIRCUIT	IOKI OK UPEN	1. TEMPERATURE: 2. R.H.: 90-95% 3. TIME: 1000±12 H0 4. LOAD: ALLOWEI	DURS		

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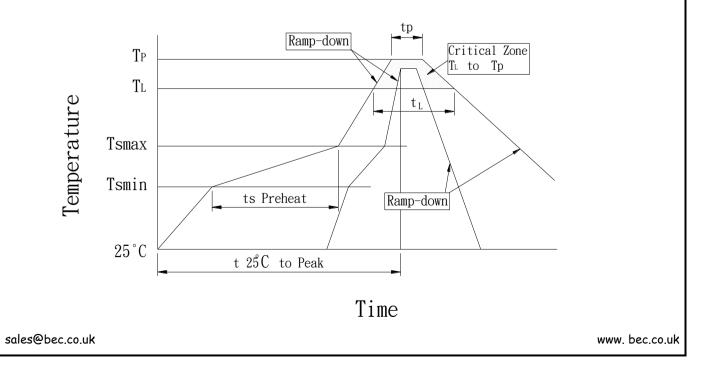
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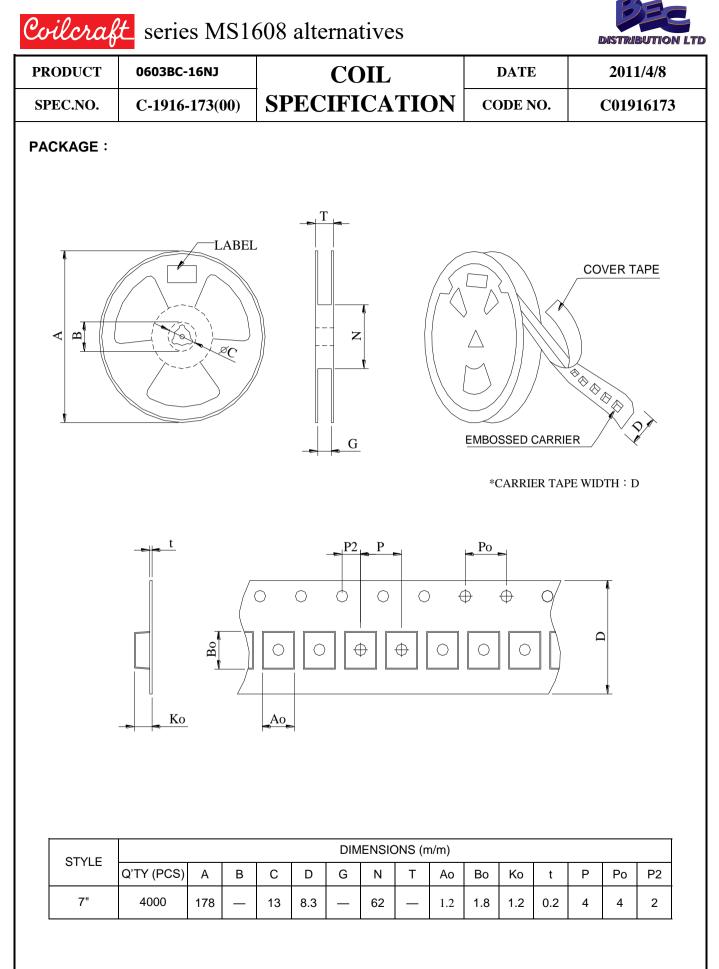
### Coilcraft series MS1608 alternatives



DUCT	0603BC-16NJ		COIL	D	DATE	
C.NO.	C-1916-173(00)	SPECI	FICATIO	N CO	DE NO.	C0191617.
OMMEN	DED SOLDERING CO					
SIFICATIO	N REFLOW PROFILES					
		Sn-Pb Eutectio	Assembly	Pb-Free	e Assembly	
	Profile Feature	Large Body	Small Body	Large Body	Sma	ll Body
Averag (T⊾ to T	e ramp-up rate P)	3℃/secon	d max.	3℃/second max.		
Preheat -Temperature Min (Ts <sub>min</sub> ) -Temperature Min (Ts <sub>max</sub> ) -Time (min to max) (ts)		100ໃ 150ໃ 60-120 se	ĉ	2	150℃ 200℃ 60-180 seconds	
Tsmax -Ramp	to T∟ -up Rate			3°C/se	cond max.	
Time maintained above: -Temperature (T <sub>L</sub> ) -Time (t <sub>L</sub> )		183% 60-150 se	-		17℃ 0 seconds	
Peak T	emperature (Tp)	<b>225 +0/-5</b> ℃	240 +0/-5℃	<b>245 +0/-5</b> ℃	26	50°C
	rithin 5℃ of actual Peak rature (tp)	10-30 seconds	10-30 seconds	10-30 second	s 10 se	econds
Ramp-down Rate		6℃/second max.		6°C/second max.		
Time 25℃ to Peak Temperature		6 minutes	6 minutes max. 8 minutes ma		utes max.	

#### REFLOW SLODERINGS



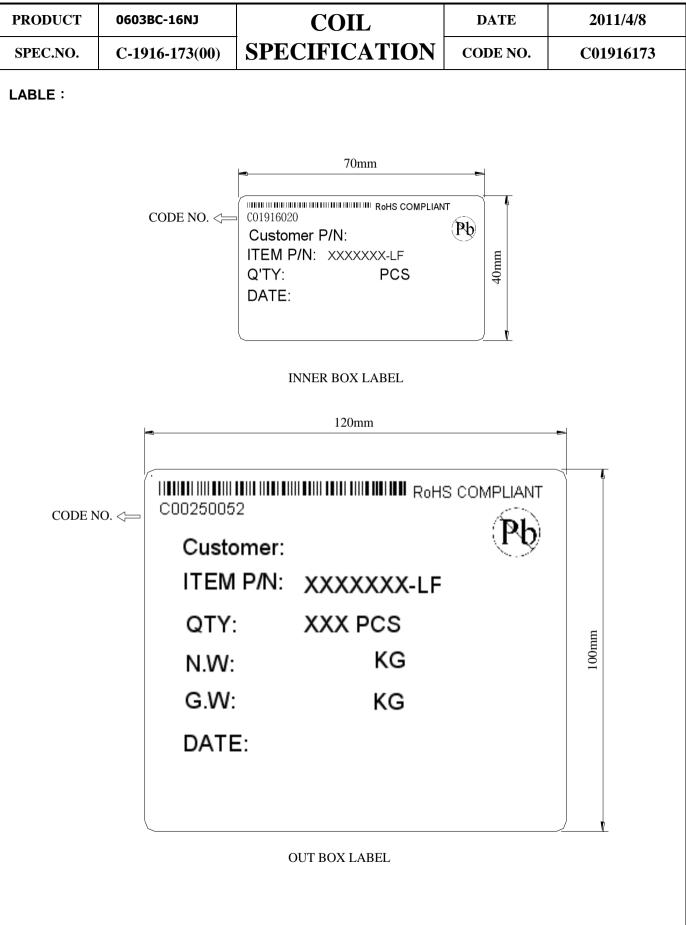


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# Coilcraft series MS1608 alternatives





#### Coilcraft series MS1608 alternatives



	SPEC.NO.         C.1916-173(00)         SPECIFICATION         CODE NO.         C0191617           Jone No.         C0191617           Code No.         Code No.           Code No.         Code No.           Code No.	Couchag		uo alternatives		DISTRIBUTION LT
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