Part No.CMS74BQV-221M-LF Dual-Winding Shielded Power Inductors



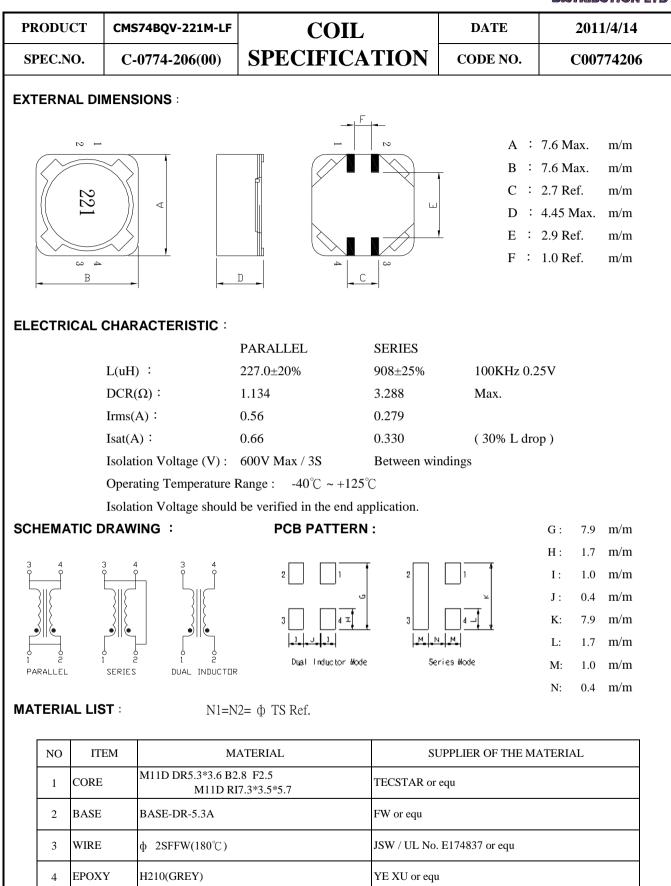
RoHs Complian



Dual, 220 µH, 1.48 ohm, 520 mA, 7.6mm x 7.6mm x 3.4mm

PECIFI	CAT	ION	APPRO
CUSTOMER	:]	BEC Di	stribution
PRODUCT	: C]	MS74BQ	V-221M-LF
		Pb-	free
CODE NO.	:	C007	74206
CUS. CODE	:		
SPEC.NO.	:	C-0774	-206(00)
DATE	:	14-A	pr-11
CU	USTOME	R APPRO	VAL
e	www. mail: sal	RIBUTIO bec.co.uk es@bec.c (0)1844 2	o.uk
PREPARED BY	APPRO	OVED BY	AUTHORIZED H
JEAN	Т	ONY	MASCOT





www.bec.co.uk



RODUCT	CMS74BQ\	/-221M-LF		COIL		DATE		2011/4/14
PEC.NO.	C-0774-	206(00)	SPECIFICATION		CODE NO.		C00774206	
ST DATA								
			ELECTRIC	CAL CHARACT	ERISTICS			
MEAS. ITEM	L(µH)	DCR(Ω)	Isat(A)	L(µH)	DCR(Ω)	Isat(A)		
TEST FREQ.	100KHz 0.25V	Max.		100KHz 0.25V	Max.			
YOUR								
SPEC.	227.0±20%	1.134	0.66	908±25%	3.288	0.33		
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
Х	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
R	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		
	·							
				DIMENSION				
MEAS. ITEM	А	В	С	D	E	F		
TEST FREQ.	m/m	m/m	m/m	m/m	m/m	m/m		
YOUR								
SPEC.	7.6 Max.	7.6 Max.	2.7 Ref.	4.45 Max.	2.9 Ref.	1.0 Ref.		
1								
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5								
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PRODUCT	CMS74B	4-206(00) COIL SPECIFICA			DATE	2011/4/14
SPEC.NO.	C-0774			TION	FION CODE NO. C00774	
TEST ITI	EMS	SPE	CIFICATIONS	TEST CONDITIONS / TEST METHO		TEST METHODS
ELECTRICAL PI	ERFORMA		'ANDARD ELEC-TRICAL ISTIC LIST.	CHANGE SHO VALUE AND MORE THAN	EQUIV E CURRENT TO CO DULD BE LESS TH TEMPERATURE F 40°C	OILS THE IDUCTANCE IAN 30% TO INITIAL RISE SHOULD NOT BE
TEMPERATURERISE TEST		40°C MAX (∠	△t) 2. TEMPERATURE MEASURE BY DIG THERMOMETER. APPLIED 1.5 TIMES OF RATED ALLOY			
<u>MECHANICAL I</u>	<u>PERFORM</u>	ANCE TEST		PREHEAT:15	℃ 60SECS	
SOLDER HEAT RES	SISTANCE	1. INDUCTORS SHOULD HAVE NO EVIDENCE OF ELEC- TRICAL ANI MICHANICAL DAMAGE 2. INDUCTANCE – SHOULD NOT HANGE MORE THA		SOLDER TEN 255±5°C		Preheating Dipping Natural cooling
		MICHANICA	F ELEC- TRICAL AND L DAMAGE 2. INDUCTANCE	FLUX: ROXIN		60 10±0.5 second second
IBRATION TEST	r)	MICHANICA SHOULD NO 10%	F ELEC- TRICAL AND L DAMAGE 2. INDUCTANCE	DIP TIME:10= 1.AMPLITUD 2.FREQUENC 3.DIRECTION	E: 1.5 mm	second second



PRODUCT	CMS74BQV-221M-LF	C	COIL	DATE	2011/4/14
SPEC.NO.	C-0774-206(00)	SPECI	FICATION	CODE NO.	C00774206
TEST ITEMS	SPECIFICA	TIONS	TEST CON	DITIONS / TEST	METHODS
MECHANICAL PE	ERFORMANCE TEST				
SOLDERABILITY TE	MORE THAN 90% C TERMINAL ELECTI SHOULD BE COVE SOLDER.	RODE BE	FTER FLUXING, INDUC E DIPPEDIN A MELTED ATH AT 255±5℃ FOR 5 S	SOLDER	Preheating Dipping Natural cooling 60 4 ±0.5 second second
COMPONENT ADHESION (PUSH TEST)	1.5Kg Min	SC SE SU G/ TH DI M W TE	IE DEVICE SHOULD BI DLDERED (255±5℃ FOR CONDS) TO A TINNED JBSTRATE. A DYNOME AUGE SHOULD BE APPI IE SIDE OF THE COMPO EVICE MUST WITH- STA INIMUM FORCE OF 1.51 ITHOUT AILURE OF TH ERMINATION . ATTACH DMPONENT.	to COPPER TER FORCE LIED TO ONENT. THE AND A Cg E	NIT OF STATE
COMPONENT ADHESION (PULL TEST)	1.5Kg Min	RI EN UI SH	NSERT 10cm WIRE INTE EMAINING OPEN EYE B NDS OF EVEN WIRE LEI PWARD AND WIND TOO 2. TERM IALL NOT BEREMARKA AMAGED	END THE NGTHS JETHER INAL	
FLEXTURE STRENG	THE FORCES APPL TH SHOULD NOT DAM DIELECTRIC.	IAGE THE SU	DLDER A CHIP ON A TE JBSTRATE, BEND THE S Y 2mm AND RETURN.		Bending 45mm 45mn 100mm
RESISTANCE TO SOLVENT TEST	THERE SHOULD BI CASEDEFORMATIC CHANGE IN APPEA BITERATION OF M	ON, ARANCE OR	DUCTERS SHALL WITH	ISTAND 6 MINTES	OF ALCOHOL



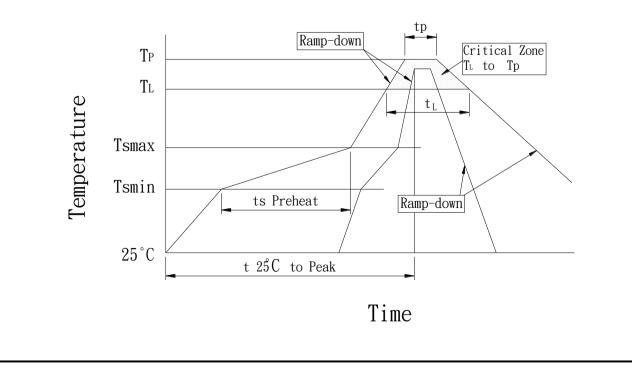
PRODUCT	CMS74BQV-221M-LF	74BQV-221M-LF COI		DATE	2011/4/14		
SPEC.NO.	C-0774-206(00)	•	CATION	CODE NO.	C00774206		
TEST ITEM	S SPECIFI	CATIONS	TEST CONDITIONS / TEST METHOD		ST METHODS		
<u>CLIMATIC TESI</u>	<u></u>						
TEMPERATURE CHARACTERISTIC			- 40°C ~ +125℃				
HUMIDITY TEST			60°C ±2°C / 96±2 HOURS				
LOW TEMPERATUR STORAGE	1.APPEARANCE:N	D DAMAGE JCE:WITHIN±10%	1.TEMPERATURE:- 2.TIME: 96±2 H				
THERMAL SHOCK TEST	OF INITIAL VALUE	3.	125±5°C FOR 30 MINUTES. +80±5°C FOR 30 MINUTES. 2.TOTAL: 10 CYCLES		iture		
HIGH TEMPERATU STORAGE	RE		1.APPLIED CURRE	NT: MAX RATED CU 2.TEMPERATU			
NOTE : INDUCTOR	S ARE TO BE TESTED AF	TER 2 HOUR AT RO	I OM TEMPERATURE).			
<u>LIFE TEST</u>							
HIGH TEMPERATU LOAD LIFE TEST	INDUCTORS SHOU		1. TEMPERATURE: 2. TIN CURREN	80±2℃ IE: 500±12 HOURS	3. LOAD: ALLOWED DC		
HUMIDITY LOAD I TEST	EVIDENCE OF SHO CIRCUIT	JKT OR OPEN	1. TEMPERATURE: LOAD: ALLOWED I	2. R.H.: 90-95%	3. TIME: 500±12 HOURS 4.		



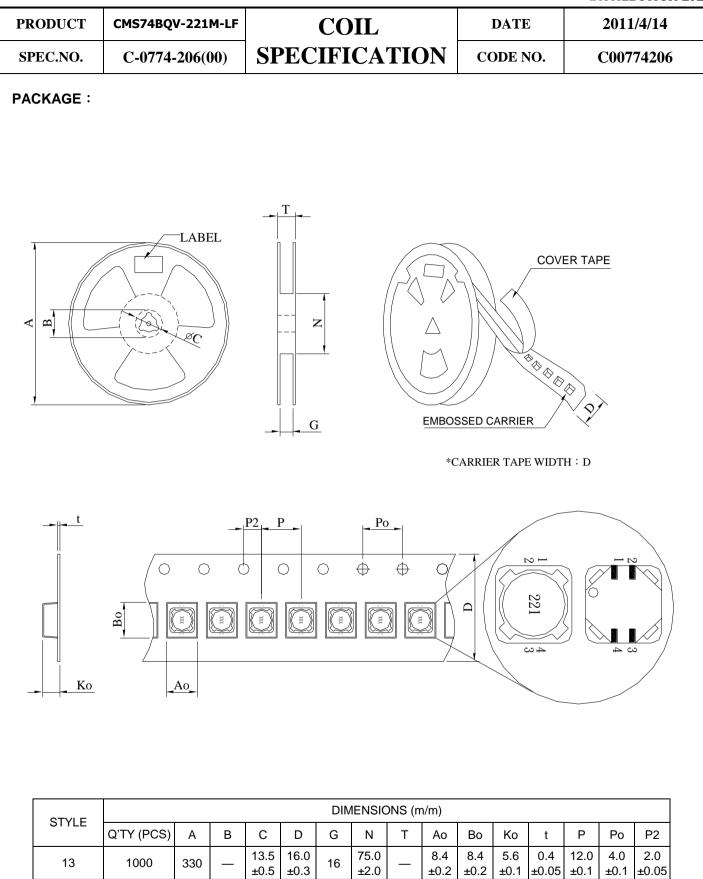
RODUCT	CMS74BQV-221M-LF	CC	DIL	DATE	2011/4/14
PEC.NO.	C-0774-206(00)	SPECIFICATION		CODE NO.	C00774206
	ED SOLDERING CON				
ASSIFICATION	REFLOW PROFILES				
Profile Feature		Sn-Pb Eutec	tic Assembly	Pb-Free /	Assembly
	rofile Feature	Large Body	Small Body	Large Body	Small Body
Average ram (T _L to T _P)	p-up rate	3℃/seco	ond max.	3℃/seco	nd max.
Preheat -Temperature -Temperature -Time (min to	e Min (Ts _{max})	100 150 60-120 :	D°C	150 200 60-180 s	rc
Tsmax to T _L -Ramp-up Ra				3℃/seco	nd max.
Time maintai -Temperature -Time (t _L)		183 60-150	Ų	217 60-150 s	ç
Peak Tempe	rature (Tp)	225 +0/-5℃	240 +0/-5°C	245 +0/-5℃	255 +5/-5℃
Time within 5 Temperature	°C of actual Peak (tp)	10-30 seconds	10-30 seconds	10-30 seconds	20-40 seconds
Ramp-down	Rate	6℃/seco	ond max.	6℃/seco	nd max.
Time 25℃ to	Peak Temperature	6 minut	es max.	8 minute	es max.

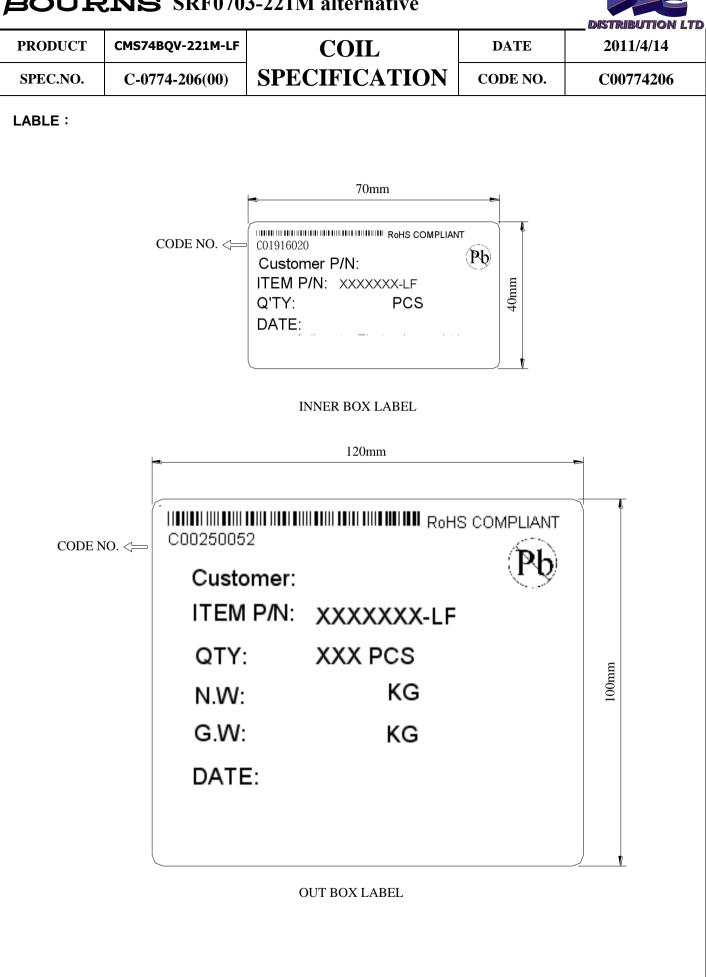
Note : All temperatures refer t topside of the package. Measured on the package body surface.

REFLOW SLODERINGS











SPEC.NO. C-0774-206(00) SPECIFICATION CODE NO. C007 CODE NO. CODE NO. C007			SPECIFICATION				
 All of the components are manufactured, designed, and promoted for applying in general electronics devices, for the specific area such as automotive, medical, military and aerospace except for general electronic devices, BEC Distribution must be asked for written approval before necorporating the components into these areas. 2. The components that will be used in high-reliability / high level of safety applications should be pre-evaluated by the end customer. Especially in customer applications in which the malfunction or failure of an electronic component could endanger human life or health. The customer shall be responsible for evaluating and confirming product is suitable for use in customer's applications. 3. Customer must be cautioned to verify that data sheets are the updated ones before placing orders. In the individual cases, any trouble or failure of allectronic components happens during their long span cannot be eliminated even follow the instruction with existing technology. 4. Washing / Cleaning process may jeopardize the product and cause the defect. Washing agents may harm the long-term functionality of the product 5. The storage period should not be longer than 12 months (In the specific storage environment). The oxidization may happen on the terminals. 4. Hence all the products shall be used within 12 months after the shipping date. If the time is over 12 months, please check the solderability before use it. 5. Products should not be kept in unsuitable storage conditions, such as areas susceptible to high humidity, high temperatures, dust or corrosion. 7. Don't touch electrodes directly with bare hands as oil secretions may inhibit soldering. Always ensure optimum conditions for soldering. 8. Products should not be kept in unsuitable storage completely fixed with solder onto PCB 10. Ensure the tuning slug or cap is not fixed by solder flux during the production process. 11. Avoid placing c	Cautions and		SPEC.NO. C-0774-206(00) SPECIFICATION CODE NO.				
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 Avoid placing coils near the edge of the PCB Don't touch any exposed winding part and avoid coming into contact with the guide of the electrode in automatic mounting The inductor / coil / common mode choke generates heat when current is applied. Please take care of this during the design. Always handle the product with care to prevent the damage. Our specification specifies the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit. 	Please ensure that all to	erminals and case lugs are comple	tely fixed with solder onto PCB				
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 13. The inductor / coil / common mode choke generates heat when current is applied. Please take care of this during the design. 14. Always handle the product with care to prevent the damage. 15. Our specification specifies the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit. 	Avoid placing coils nea	ar the edge of the PCB					
 Always handle the product with care to prevent the damage. Our specification specifies the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit. 	Don't touch any expos	ed winding part and avoid coming i	into contact with the guide of the electrode in automat	tic mounting			
5. Our specification specifies the quality of the component as a single unit. Please ensure the component is thoroughly evaluated in your application circuit.	The inductor / coil / co	mmon mode choke generates heat	t when current is applied. Please take care of this dur	ing the design.			
	Always handle the pro	duct with care to prevent the dama	ge.				
Even for customized products, conclusive validation of the component in the circuit can only be carried out by customer.	Our specification spec	ifies the quality of the component a	as a single unit. Please ensure the component is thore	oughly evaluated in your ap	plication circuit.		
	en for customized prod	ucts, conclusive validation of the co	omponent in the circuit can only be carried out by cust	tomer.			
16. The general testing condition is in the room temperature 25 +/- 5°C and humidity under 65% RH, which is applied to all products.	The general testing co	ondition is in the room temperature	25 +/- 5°C and humidity under 65% RH, which is appl	ied to all products.			
17. If have any query, please feel free to contact our sales department.	If have any query, plea	ase feel free to contact our sales de	epartment.				