

Coilmaster



SPECIFICATION APPROVAL

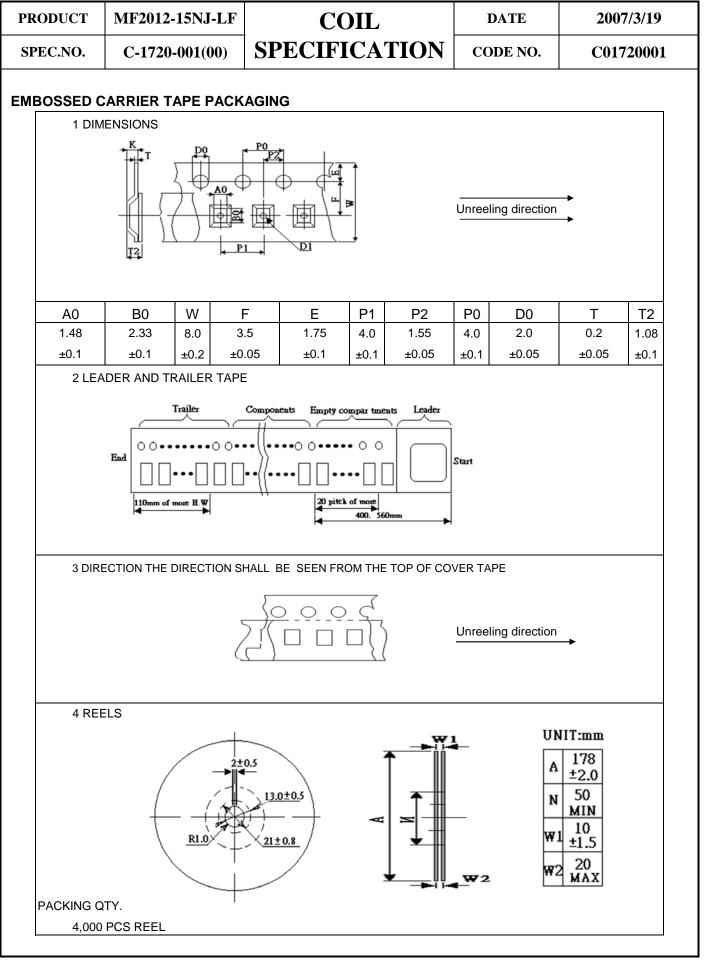
CUSTOMER	ξ:	BEC Di	stribution
PRODUCT	:	MF2012-15NJ-LF	
		Pb	-free
CODE NO.	•	C017	720001
CUS. CODE	•		
SPEC.NO.	:	C-1720	0-001(00)
DATE	•	19-Mar-07	
С	USTC	MER APPRO	DVAL
Coilmaster 3F,NO.211 HUA			
TAOYUAN CIT	Y , TAI	WAN, R.O.C.	
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PREPARED B	Y AF	PROVED BY	AUTHORIZED BY

PRODUCT	MF2012-15NJ-LF	COIL	DATE	2007/3/19
SPEC.NO.	C-1720-001(00)	SPECIFICATION	CODE NO.	C01720001
CONFIGURA	FION & DIMENSIONS	:		
		_		
			A : 2.0±0.2	m/m
			A : 2.0 ± 0.2 B : 1.25 ± 0.2	m/m
			$C : 0.2 \sim 0.8$	m/m
			D : 0.85 ± 0.2	m/m
	A			
ELECTRICAL	CHARACTERISTIC	:		
IND	UCTANCE :	15±5% 100	MHz	
Q :		15 Min.		
	F-RESONANT FREQUE			
	RESISTANCE(Ω) :	0.40 Max.		
RAT	ED CURRENT (mA) :	300 Max.		
STANDARD A	TMOSPHERIC COND	ITIONS		
Unle	ss otherwise specified the	standard range of atmospheric cond	itions for	
maki	ng measurements and test	ts is as follows:		
Amb	ient temperature : 20±15°	C		
Relat	tive humidity : 65±20%	0		
If the	ere may be any doubt on t	he results, measurements shall be ma	ade within	
the fo	ollowing limits :			
Amb	ient temperature : 25±5°C			
Relat	tive humidity : 75±10%	⁄o		
	·			

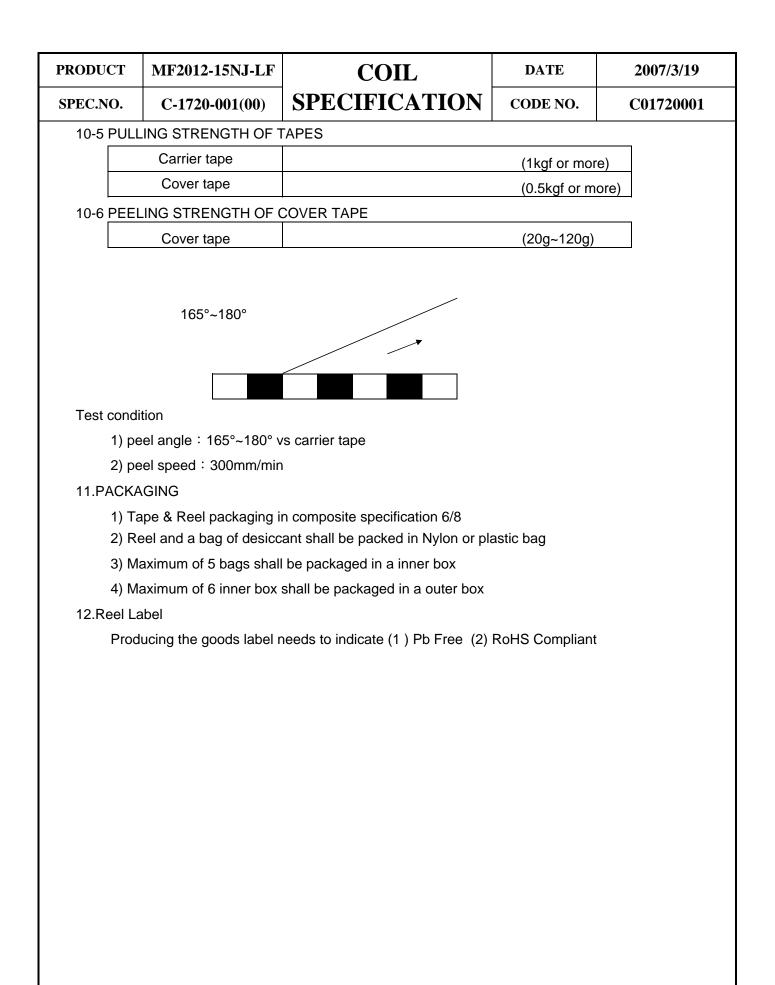
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SPEC.NO.	C-1720-001(00)			CODE NO.	C01720001		
 6) Reflow soldering conditions Pre - heating should be in such a way that the temperature difference between solder and ferrite surface is limited to 150°C max. Also cooling into solvent after soldering should be in such a way that the temperature difference is limited to 100°C max. Unenough pre - heating may cause cracks on the ferrite, resulting in the deterioration of product quality. Products should be soldered within the following allowable range indicated by the slanted line. The excessive soldering conditions may cause the corrosion of the electrode, When soldering is repeated, allowable time is the accumulated time. 							
Temperatur	re Profile	0 10 20 30 40 50 60	70				
Ma	in heating		A Slope	of temp. rise	1 to 5	°C /sec	
^ [ລູ]	230°C		B Heat ti	me	50 to 150	sec	
Pre-heating	180		Heat to	emperature	120 to 180	°C	
Pre-heating Pre-heating Normal temperature			C Slope	of temp. rise	1 to 5	°C/sec	
	A B C D		D Time o	over 230°C	90~120	sec	
	Time [sec] ->			emperature	255~260	°C	
			Peak I	iold time	10 max.	sec	
			*No. с	of mounting	3	times	
		(Melting area of solder)					
6-1 Reworking	g with soldering iron Preheating	150° C	Iminute		7		
	Tip temperature	280°C			-		
	Soldering time		nds max.		-		
					-		
Soldering iron output 30w max.							
End of soldering iron § 3mm max.							
 Reworking should be limited to only one time. Note : Do not directly touch the products with the tip of the soldering iron in order to 							
prevent the crack on the ferrite material due to the thermal shock.							
6-2 Solder Volume Upper Limit							
Solder shall be used not to be exceed the upper limits as shown below.							
Accordingly increasing the solder volume, the mechanical stress to product is also increased. Exceeding solder volume may cause the failure of mechanical or electrical performance.							

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PEC.NO.	C-1720-001(00)	SPECIFICAT	ION C	ODE NO.	C01720001
	IPMENT MPEDANCE Impedance shall be m	neasured with HP-4286/	A impedance		
	analyzer or equivalent		·		
7-2 D	C RESISTANCE	,			
	DC resistance shall be	e measured using HP 433	38 digital mili-	-ohm	
	meter with 4 terminal	method.			
8.MECHAN	NICAL CHARACTERIS	STICS			
ITEM	Sp	ecification	TE	ST CONDITIO	NS
TERMIN	AL Without deformatio	n cases Sc	older chip on PC	B and applied ?	ION
STRENG	TH impedance shall be		.02Kgf) for 10 sec		
	DC resistance shal		Gius Apore PCB	CHIP BEAD	
Substrat	e Without deformatio	n cases, Af	ter soldering a c	chip to a test su	ostrate.
bending t	est impedance shall be	11 ft 1 0001	end the substrate		
	DC resistance shal		d then return.	,	
			oldering shall be	done in accord	ance
			th the recomme		
		an	unit : mm	ng.	
RESISTANC	3		older Temp. : 265:	±3 ℃	
TO SOLDER	Electrical characteris characteristics shall b		mersion time : 6±	1 sec	
HEAT		Pro	eheating : 100℃	to 150℃, 1 minut	e.
			easurement to be ±2 hrs.	made after keep	ing at room temp for
			lder : Sn-3Ag-0.5		
SOLDER	9		older temp. : 240		
ABILIT	Y metabolised area		mersion time : 3		
		Sc	older : Sn-3Ag-0	.5Cu	

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9. RELIAB	ILITY AND TEST CONDIT	IONS		
9-1 HI	GH TEMPERATURE RES	SISTANCE		
	a. Performance specifica	tion		
	1.Appearance : no mech	anical damage		
	2.Impedance shall be wit	h $\pm 30\%$ of the initial value		
	3. DC resistance shall be	satisfied		
	b.Test condition			
	1.Temperature125℃±2℃			
	2.Applied current : Rated	d current(maximum value)		
	3.Testing time : 96±4hrs			
	4.Measurement : After pl	lacing at room ambient temperature for a	1 hours minimum	
9-2 H	UMIDITY RESISTANCE			
	a.Performance specification	on		
	1.Appearance : no mech	•		
	2.Impedance:within ±30%	of initial value		
	3.DC resistance shall be	satisfied		
	b.Test condition			
	1.Humidity : 90 to 95% R	Н		
	2.Temperature : 60±2℃			
	3.Applied current : Rated	d current (maximum value)		
	4.Testing tine : 500±4ho	urs		
	5.Measurement : After pl	lacing at room ambient temperature for	1 hours minimum	
9-3 TE	EMPERATURE CYCLE			
	a.Performance specification	on		
	1.Appearance : no mech	•		
	2.Impedance:within ±30%			
	3. DC resistance shall be	satisfied		
	b.Test condition			
	-	25° C kept stabilized for 30 minutes each		
	2.Cycle : 100 cycles			
		lacing for 1 hours minimum at room amb	bient temperature	
	4. step155℃ temp±3℃			
	-	nospheric conditions 5s or less		
		p±2℃ 30±3 minutes		
	-	nospheric conditions 5s or less		
9-4 L0	OW TEMPERATURE STO			
	a.Performance specification			
	1.Appearance : no mech	-		
	-	h $\pm 30\%$ of the initial value		
	3. DC resistance shall be	satisfied		
	b.Test condition	_		
	1.Temperature -55℃±2℃			
	2.Testing time : 1008±12			
	3.Measurement : After p	lacing for 24 hours minimum at room an	ibient temperature	



COILMASTER ELECTRONICS CO., LTD.



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12. STOR	12. STORAGE						
12-1	The solderability of	the external electrode may be					
	deteriorated if pack	ages are stored where they ar	е				
	exposed to high hu	midity. Packages must be stor	ed				
	at 40 $^\circ\! \mathbb{C}$ or less and	70% RH or less.					
12-2	The solderability of	the external electrode may be	9				
	deteriorated if pack	ages are stored where they ar	е				
	exposed to dust or	harmful gas (hydrogen chlorid	e,				
	sulfurous acid gas	or hydrogen sulfide).					
12-3	Packaging material	may be deformed if packages	s are				
	stored where they a	are exposed to heat or direct s	un —				
	light.						
12-4		s, such as polyvinyl heat-sea					
		I until just before they are used	d.				
If opened, use the reels as soon as possible.							
12-5 Solderability specified in composite specification 4/8 shall be							
for 6 months from the date of delivery on condition that							
they are stored at the environment specified clause							
12-1 & 12-2.							
For those parts which passed more than 6 months shall							
be checked solderability before it is used.							

