

# Coilmaster



### **SPECIFICATION APPROVAL**

CUSTOMER : OZDISAN

PRODUCT : MI3225-102-2A-LF

Pb-free

CODE NO. : C01432041

CUS. CODE :

SPEC.NO. : C-1432-041(01)

DATE : 20-Sep-06

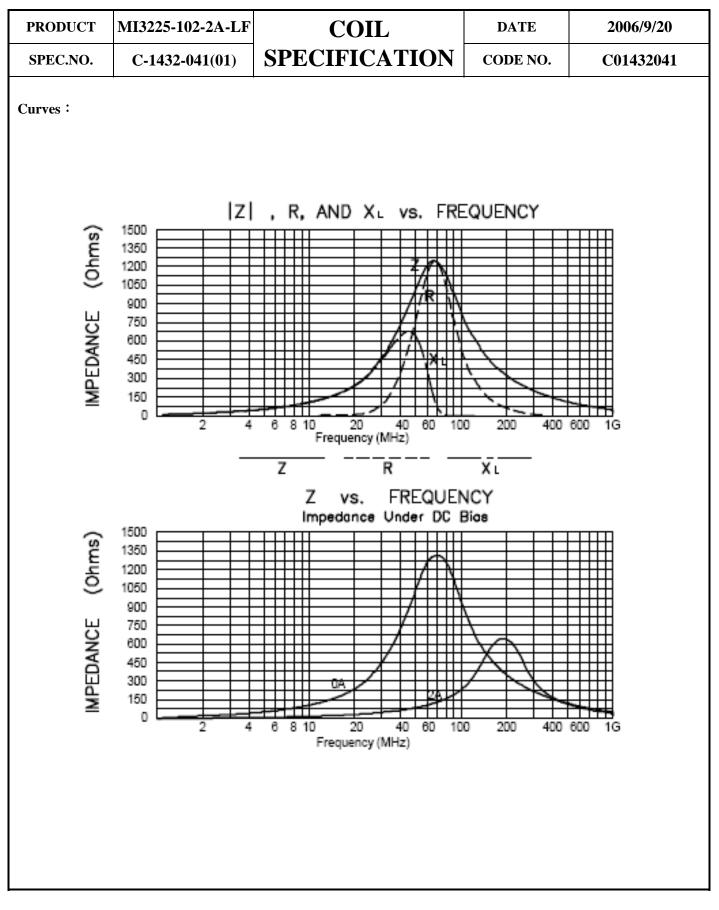
CUSTOMER APPROVAL

#### **Coilmaster Electronics Co., Ltd.**

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PREPARED BY	APPROVED BY	AUTHORIZED BY
JEAN	TONY	MASCOT

PRODUCT	MI3225-102-2A-LF	COIL	DATE	2006/9/20
SPEC.NO.	C-1432-041(01)	SPECIFICATION	CODE NO.	C01432041
CONFIGURA	TION & DIMENSIONS	:		
				,
			A : 3.2±0.2	m/m
Ē			B : 2.5±0.2	m/m
			C : 0.6~1.0	m/m
	T A	B	D : 1.3±0.2	m/m
		1		
ELECTRICAI	CHARACTERISTIC :			
IMP	EDANCE ( $\Omega$ ) AT 50 MH:	z 250mV : 1000±25%		
DC	RESISTANCE( $\Omega$ ) :	0.09 Max.		
RAT	TED CURRENT (mA) :	2000 Max.		
OPE	RATION TEMP RANGE	$:-55^{\circ}$ C to $+125^{\circ}$ C.		
STANDARD A	TMOSPHERIC COND	ITIONS		
Unle	ess otherwise specified the	standard range of atmospheric condi	tions for	
mak	ing measurements and test	s is as follows:		
Amb	pient temperature : 20±15°	2		
	tive humidity : 65±20%			
If the	ere may be any doubt on th	he results, measurements shall be ma	de within	
	following limits :			
	bient temperature : $25\pm5^{\circ}$			
	-			
Rela	tive humidity : 75±10%	<b>o</b>		

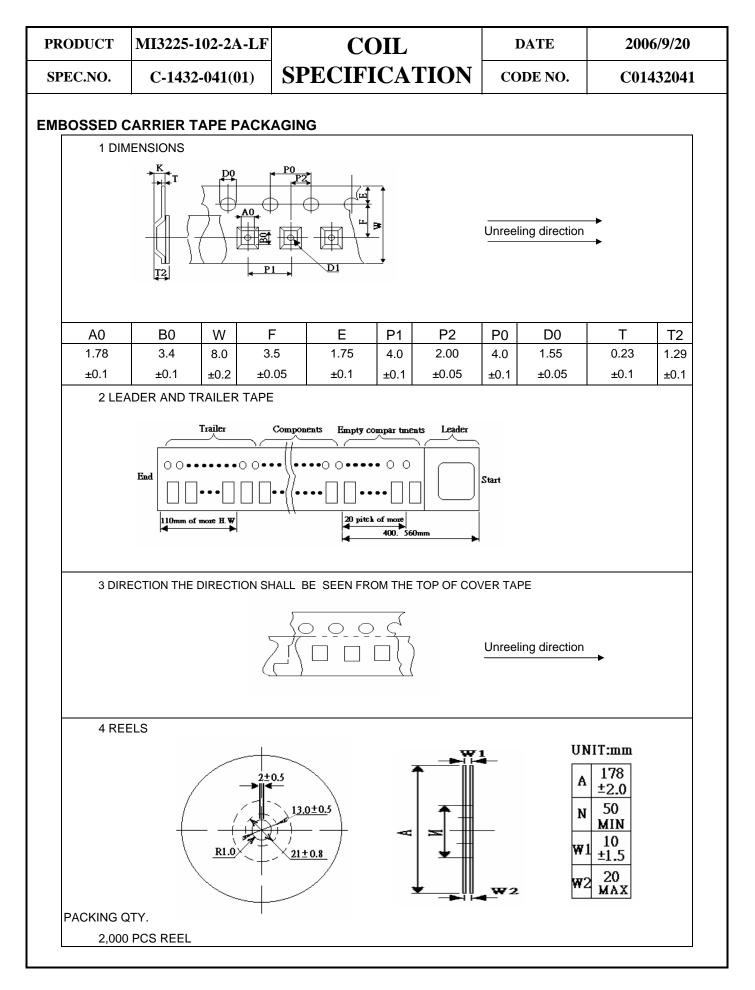


**COILMASTER ELECTRONICS CO., LTD.** 

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SPEC.NO.	C-1432-041(01)	SPECIFICA	TION	CODE NO.	C0143	32041
surface is limi way that the to Unenough pre quality. • Products show The excessive	ing conditions should be in such a way that ted to 150°C max.Also cooling emperature difference is limit e heating may cause cracks uld be soldered within the follow a soldering conditions may ca wable time is the accumulate	g into solvent after soldering ed to 100°C max. on the ferrite, resulting in the owing allowable range indica ause the corrosion of the elec	should be in so e deterioration ted by the slar	uch a of product ited line.		
Tomporatu	ro Profilo	0 10 20 30 40 50 60	70			
Temperatur	e Prome					
	in heatingE 230°CE		A Slope	of temp. rise	1 to 5	°C <b>/sec</b>
<b>^</b>			B Heat t		50 to 150	sec
Pre-heating Normal temperature	120			emperature	120 to 180	°C
e Normal temperature				of temp. rise	1 to 5 90~120	°C/sec
×	* * * * *			temperature	255~260	sec ℃
	Time [sec] ——>			hold time	10 max.	sec
				of mounting	3	times
				-		
		(Melting area of solder)				
6-1 Reworking	g with soldering iron	r			-	
	Preheating	<b>150</b> ℃	, Iminute		+	
	Tip temperature	<b>280</b> °C	max		+	
	Soldering time	3seco	nds max.		+	
	Soldering iron output	30w m	iax.		-	
	End of soldering iron	§ 3mr	n max.			
• Rew	orking should be limited to or	nly one time.				
Note : Do not	directly touch the products w	vith the tip of the soldering iro	n in order to			
•	t the crack on the ferrite mate	erial due to the thermal shock	ζ.			
6-2 Solder Vo				Upper		
Solder	shall be used not to be exceed t	the upper limits as shown below		Recon	nmendable	
Accord	lingly increasing the solder ve	olume the mechanical stross	to product is	also		
	sed. Exceeding solder volume		-			
perforr	-					

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	I IPMENT MPEDANCE Impedance shall be m	⊔ neasured with HP−4286	A impedance	, i	
	analyzer or equivalent		1	-	
7-2 [	DC RESISTANCE	, <b>,</b>			
	DC resistance shall be	e measured using HP 43	38 digital m	nili — ohm	
	meter with 4 terminal i	-	-		
8.MECHA	NICAL CHARACTERIS	STICS			
ITEM		ecification		TEST CONDITIO	NS
TERMIN	•		Solder chip on	PCB and applied 2	
STRENG	TH impedance shall be		1.02Kgf) for 10		
	DC resistance shall			CHIP BEAD	
Substra	te Without deformation	n cases, 🔬	fter soldering	a chip to a test sul	ostrate
bending				rate by 3mm hold f	
	DC resistance shall	~	and then return		103
				be done in accord	ance
				mended PC board	
			nd reflow solo		pattern
			unit : mm 0.8 45		
RESISTANC			older Temp. : 2	<b>265±3</b> ℃	
TO SOLDEF	R Electrical characteris		nmersion time	: 6±1 sec	
HEAT			Preheating : 100	℃ to 150℃, 1 minut	te.
			leasurement to 4±2 hrs.	be made after keep	ing at room temp for
		S	older : Sn-3Ag	-0.5Cu	
SOLDEF	R– 95% min. coverage	of all S	Solder temp. :	<b>240±5</b> ℃	
ABILIT	Y metabolised area	Ir	mmersion time	e : 3±1 sec	
		S	Solder : Sn-3A	g-0.5Cu	

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9. RELIAB	ILITY AND TEST CONDIT	IONS		
9-1 HI	GH TEMPERATURE RES	ISTANCE		
	a. Performance specificat	ion		
	1.Appearance : no mech	anical damage		
	2.Impedance shall be with	n $\pm 30\%$ of the initial value		
	3. DC resistance shall be	satisfied		
	b.Test condition			
	1.Temperature125°C ±2°C			
	2.Applied current : Rated	l current(maximum value)		
	3.Testing time : 96±4hrs			
	4.Measurement : After pl	acing at room ambient temperature for 1	hours minimum	
9-2 HI	JMIDITY RESISTANCE			
	a.Performance specification	n		
	1.Appearance : no mech	anical damage		
	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°C			
	3.Applied current : Rated	l current (maximum value)		
	4.Testing tine : 500±4hou	ırs		
	5.Measurement : After pl	acing at room ambient temperature for 1	hours minimum	
9-3 TE	EMPERATURE CYCLE			
	a.Performance specification	n		
	1.Appearance : no mech	anical damage		
	2.Impedance:within ±30%	of initial value		
	3. DC resistance shall be	satisfied		
	b.Test condition			
	1.Temperature -55℃,+12	$5^\circ\!\mathrm{C}$ kept stabilized for 30 minutes each		
	2.Cycle: 100 cycles			
	3.Measurement : After pl	acing for 1 hours minimum at room amb	ient temperature	
	4. step155℃ temp±3℃	30±3 minutes		
	step2. Standard atn	nospheric conditions 5s or less		
	step3. +125°C temp	o±2°C 30±3 minutes		
	step4. Standard atn	nospheric conditions 5s or less		
9-4 LC	OW TEMPERATURE STOP	RAGE LIFE TEST		
	a.Performance specification	on		
	1.Appearance : no mech	anical damage		
	2.Impedance shall be with	n ±30% of the initial value		
	3. DC resistance shall be	satisfied		
	b.Test condition			
	1.Temperature -55°C ±2°C			
	2.Testing time : 1008±12	hours		
	3.Measurement : After pl	acing for 24 hours minimum at room am	bient temperature	



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SPEC.NO.	C-1432-041(01)	SPECIFICATION	CODE NO.	C01432041
10-5 PULL	ING STRENGTH OF T	APES		
	Carrier tape		(1kgf or mor	e)
	Cover tape		(0.5kgf or m	ore)
10-6 PEEL	ING STRENGTH OF C	OVER TAPE		
	Cover tape		(20g~120g)	
	165°~180°			
Test condi				
		a corrier topo		
	eel angle:165°~180° v eel speed:300mm/min	·		
2) pe 11.PACKA	-			
		n composite specification 6/8		
-		ant shall be packed in Nylon or pla	astic bag	
-	-	be packaged in a inner box	0	
-	-	shall be packaged in a outer box		
12.Reel La				
Prod	ucing the goods label n	needs to indicate (1) Pb Free (2)	RoHS Compliant	

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12. STOR	AGE			
12-1	The solderability of t	he external electrode may be		
	deteriorated if packa	ages are stored where they ar	e	
	exposed to high hur	nidity. Packages must be stor	ed	
	at 40 $^\circ\!\mathrm{C}$ or less and	70% RH or less.		
12-2	The solderability of	the external electrode may be	•	
	deteriorated if packa	ages are stored where they ar	e	
	exposed to dust or l	narmful gas (hydrogen chlorid	e,	
	sulfurous acid gas o	or hydrogen sulfide).		
12-3	Packaging material	may be deformed if packages	are	
	stored where they a	re exposed to heat or direct s	un —	
	light.			
12-4		, such as polyvinyl heat – seal		
		until just before they are used	d.	
		eels as soon as possible.		
12-5		ed in composite specification		
		ne date of delivery on condition		
	•	e environment specified claus	se	
	12-1 & 12-2.			
		ch passed more than 6 month	s shall	
	be checked soldera	bility before it is used.		

