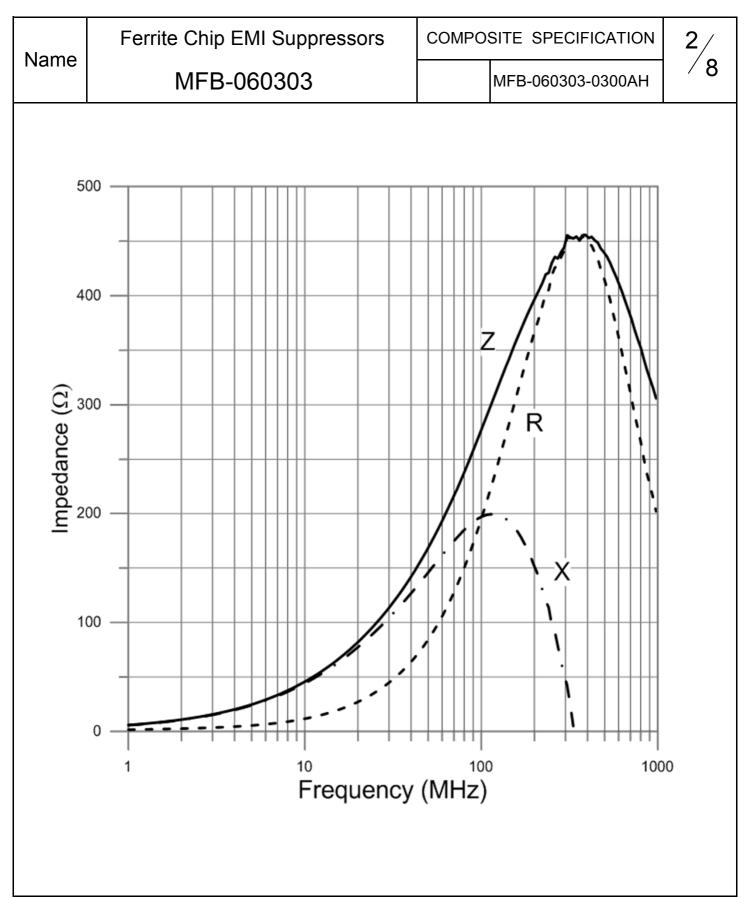
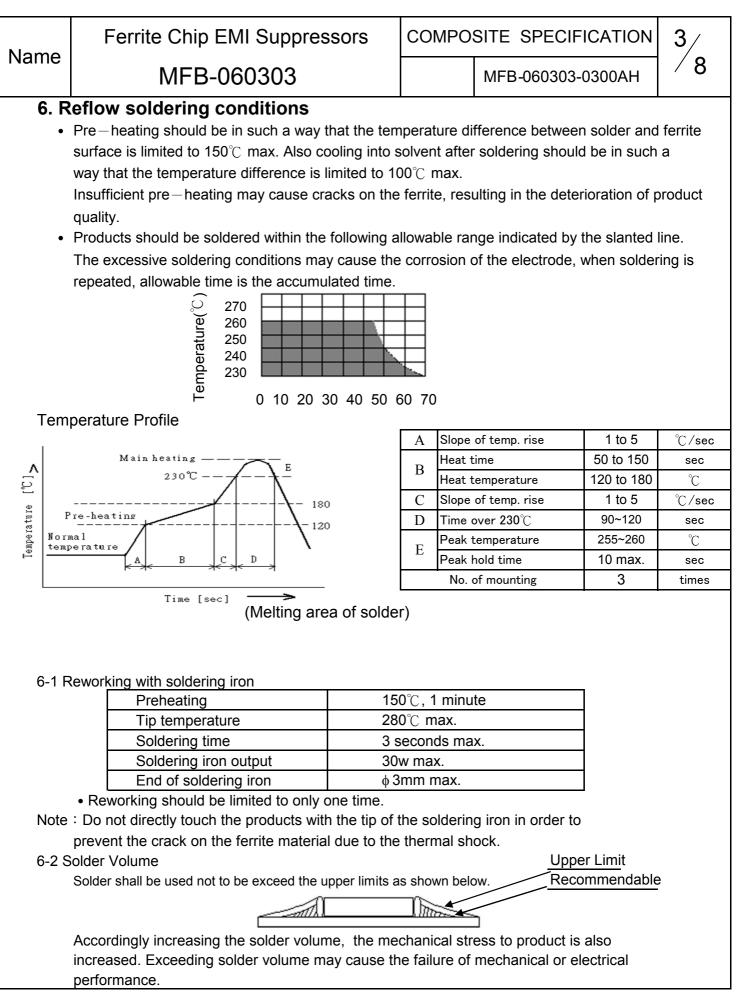
Name	Ferrite Chip EMI Suppres		ssors	COMPOSITE SPE		CIFICATIO	NC	1/	
	MFB-060303			MFB-060	)303-0300	AH	/ 8		
	1. Scope								
	This specification	n applies to the	MFB-0603	3 series Fe	errite Chip	EMI suppr	essor	S.	
	2. Standard and	Atmospheri	ic Condit	ions					
	Unless otherwise	specified the s	tandard rai	nge of atm	ospheric c	onditions f	or		
	making measurer	ments and tests	is as follo	WS:					
	Ambient tempera	ture : 20±15℃							
	Relative humidity	: 30~70%							
	If there may be a	ny doubt on the	results, m	easureme	nts shall be	e made wit	thin		
	the following limit	S :							
	Ambient tempera	ture : 25±5℃							
	Relative humidity	: 30~70%							
	3. Ratings								
<b></b>									
	PART NO								
	FART NO								
		AT100 MHz 500mV 300±25%		(Ω) Max 0.9		(mA) Max			
	FB-060303-0300AH					150			
	e maximum rated cu Ifter thru DC current 2				emperature	eincrease	d 40 (	C	
c		2 Hours at amoi	ent temper	aluie.					
	4. Dimensions								
			OPERATI	NG TEME	RANGE	· -55°⊂ ~ ·	+125°	C	
W       OPERATING TEMP. RANGE : -55°C ~ +125°C         STORAGE       TEMP. RANGE : -40°C ~ +85°C							-		
		unit:	TYPE	L	W	Т	A		
	1 and 1	mm	MFB-0603	0.6±0.03	0.3±0.03	0.3±0.03	0.1~	-0.2	
	- income and the second second	(inch)		(0.024±0.001)	(0.012±0.001)	(0.012±0.001)	(0.004~	-0.008)	
	A								

5. The Place of Origin :

Taichung, Taiwan

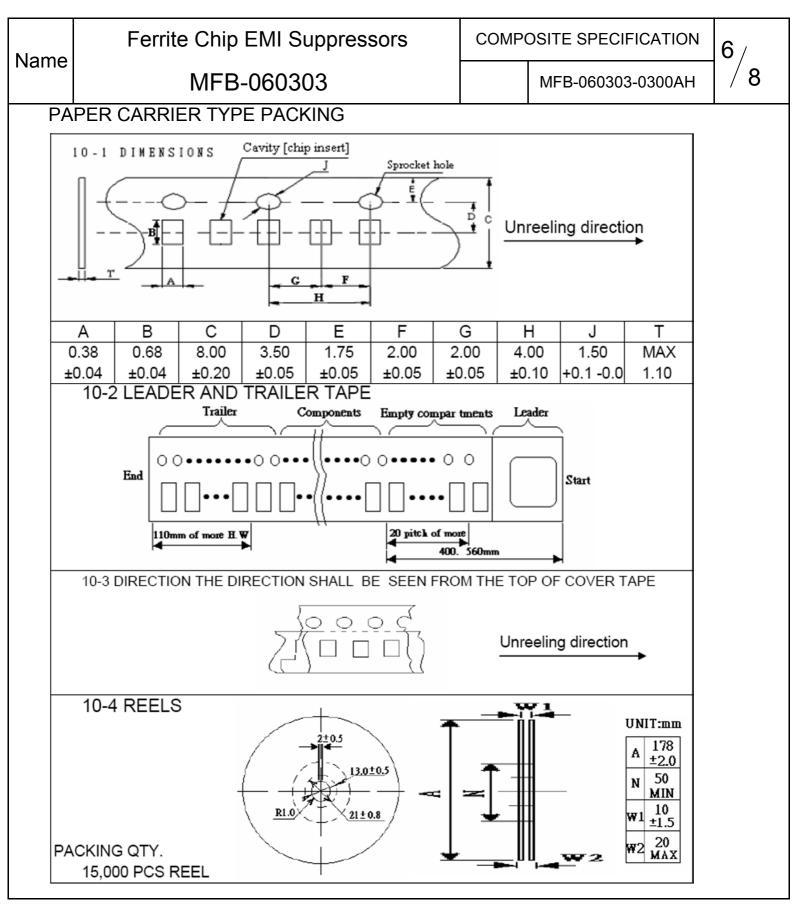
PLANNED BY	CHECKED BY	APPROVED BY
LUN	TINA	Chi Chi Huang

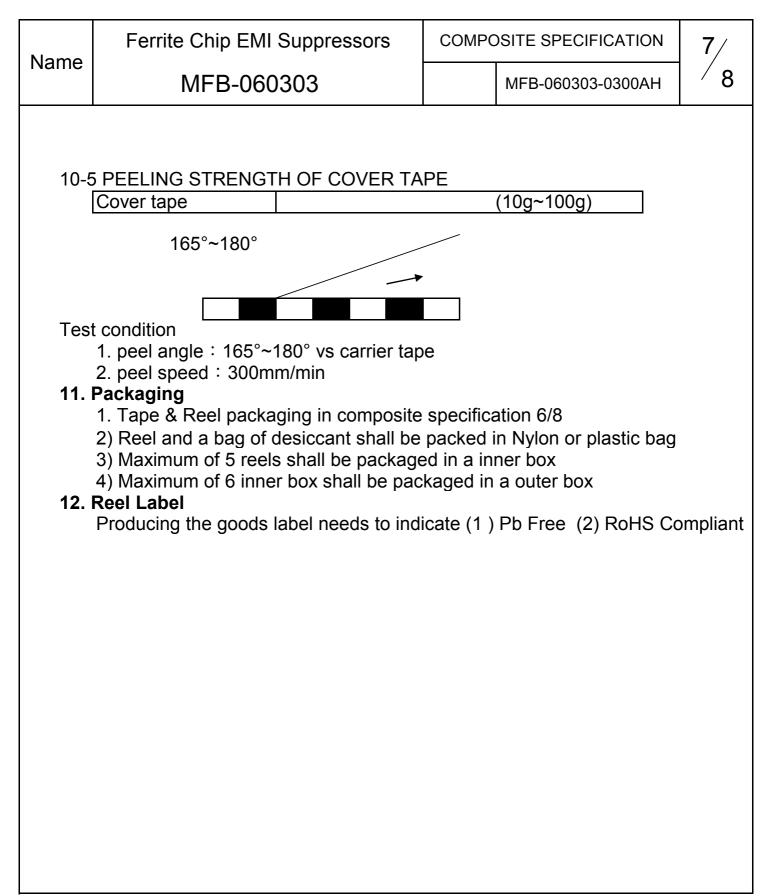




Name			COMPOSITE SPECIFICATION		4 /		
INAILIE			PEC#	MFB-060303-0300AH	8 \		
<ul> <li>7. Equipment         <ul> <li>7-1 IMPEDANCE                 Impedance shall be measured with HP-4286A impedance                 analyzer or equivalent system                 7-2 DC RESISTANCE                 DC resistance shall be measured using HP 4338 digital mili-ohm                 meter with 4 terminal method.</li> </ul> </li> <li>8. Mechanical Characteristics</li> </ul>							
	TEM	Specification		Test Conditions			
Te	Terminal         Terminal strength does not distort           Strength         Tersistance specifications.			Solder chip on PCB and applied 10N (1.02Kgf) for 10 sec			
Substrate       SPEC substrate bending test DC         Bending Test       resistance shall meet         specifications.			After soldering a chip to a test substrate, bend the substrate by 3mm hold for 10s and then return. Soldering shall be done in accordance with the recommended PC board pattern and reflow soldering.				
	sistance older Heat	No visible damage Electrical characteristics and mechanical characteristics shall be satisfied. Consult standard MIL-STD-202 METHOD 210	Solder Temp. : 265±3°C Immersion time : 6±1 sec Preheating : 100°C to 150°C, 1 minute. Measurement to be made after keeping at room temp for 24±2 hrs. Solder : Sn-3Ag-0.5Cu				
Solo	derability	95% min. coverage of all metabolised area Consult standard J-STD-002	Solder temp. : 240±5℃ Immersion time : 3±1 sec Solder : Sn-3Ag-0.5Cu				

Nome	Ferrite Chip EMI Suppressors	COMPOSITE SPECIFICATION		5/
Name	MFB-060303		MFB-060303-0300AH	8 \
<ul> <li>9. RELIABILITY AND TEST CONDITIONS</li> <li>9.1 HIGH TEMPERATURE RESISTANCE</li> <li>a. Performance specification</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial value</li> <li>b. Test condition</li> <li>1.Temperature: 125° ±2°</li> <li>2. Testing time : 1000±12hrs</li> <li>3.Measurement : After placing at room ambient temperature for 24 hours minimum</li> <li>9-2 Biased Humidity RESISTANCE</li> <li>a.Performance specification</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial value</li> <li>b. Test condition</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial value</li> <li>b. Test condition</li> <li>1.Humidity: 85 ± 5%RH</li> <li>2. Temperature: 85° ±2°</li> <li>3. Testing time: 1000 ± 12 hours</li> <li>4. Measurement : After placing at room ambient temperature for 24 hours minimum</li> <li>9-3 TEMPERATURE CYCLE</li> <li>a.Performance specification</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial value</li> <li>b.Test condition</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial value</li> <li>b.Test condition</li> <li>1.Low Temperature: 25° ±5° kept stabilized for 30 minutes each</li> <li>2. Ling temperature: 25° ±5° kept stabilized for 30 minutes each</li> <li>2. Loy Temperature: 205 minutes</li> <li>step3. +125° temp±5° 30±3 minutes</li> <li>step4. room temperature 205 minutes</li> <li>step4. room temperature 205</li></ul>				
9.1 6	<ul> <li>1.peak acceleration : 100 g's</li> <li>2.Duration of pulse : 6 ms</li> <li>3.Waveform : Half-sine</li> <li>4.Velocity change : 12.3 ft/sec</li> <li>5. Direction : X ' Y ' Z (3axes/3 times)</li> <li>9-6 Operational Life <ul> <li>a. Performance specification</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial</li> <li>b.Test condition</li> <li>1.Temperature: 125°C ±2°C</li> <li>2.Testing time : 1000±12hrs</li> <li>3.Measurement : After placing at room ambient to</li> </ul> </li> <li>9-7 Electrostatic discharge test <ul> <li>a. Performance specification</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial</li> <li>b.Test condition</li> <li>1.EsD voltage: 15k volts</li> <li>2.Mode 1:150 pF/2000 Ohm</li> </ul> </li> </ul>	emperature f	ōor 24 hours minimum	





NAME	Ferrite Chip EMI Suppressors	COMPOSITE SPECIFICATION		8 /				
	MFB-060303		MFB-060303-0300AH	/ 0				
13.	13. Storage							
13-1The solderability of the external electrode may be								
	deteriorated if packages are stored where they are							
	exposed to high humidity. Packages must be stored							
	at 40 $^\circ\mathrm{C}$ or less and 70% RH or less.							
13-2 The solderability of the external electrode may be								
	deteriorated if packages are stored where the	-						
	exposed to dust or harmful gas (hydrogen ch	ıloride,						
	sulfurous acid gas or hydrogen sulfide).							
13-3 Packaging material may be deformed if packages are								
	stored where they are exposed to heat or dir	ect sun-						
light.								
13-4 Minimum packages, such as polyvinyl heat—seal packages								
shall not be opened until just before they are used.								
If opened, use the reels as soon as possible. 13-5 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								
13-1 & 13-2.								
For those parts which passed more than 6 months shall								
	be checked solderability before it is used.							
14. Quality System								
■ ISO/TS16949								
	$\blacksquare IECO OC 080000$							

■ IECQ QC 080000