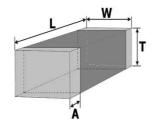
	Ferrite Chip EMI Suppressors MFB-100505		COMPOSITE SPECIFICATION			V 1 /		
Name			MFB-100		)505-0600A	<mark>                                     </mark>		
	1. Scope		1					
	This specification	n applies to the EBMS-10	05 series F	errite Chi	p EMI suppr	essors.		
2. Standard and Atmospheric Conditions								
Unless otherwise specified the standard range of atmospheric conditions for								
making measurements and tests is as follows:								
	Ambient tempera	ture : 20±15℃						
	Relative humidity	: 30~70%						
	If there may be a	ny doubt on the results, m	easuremei	nts shall be	e made with	in		
	the following limit	S:						
	Ambient tempera	ture : 25±5℃						
	Relative humidity	: 30~70%						
	3. Ratings							
					*			
	PART NO	IMPEDANCE ( $\Omega$ )	DC RES	STANCE	RATED CL	JRRENT		
		AT100 MHz 500mV	(Ω)	Max	(mA)	Max		
MFB-100505-0600AI		600±25%	1.1		50	)		
		rrent : the DC current valu	-	emperature	e increased	<b>40</b> °C		
a	fter thru DC current 2	2 hours at ambient temper	ature.					
	1 Dimensions							
	4. Dimensions							

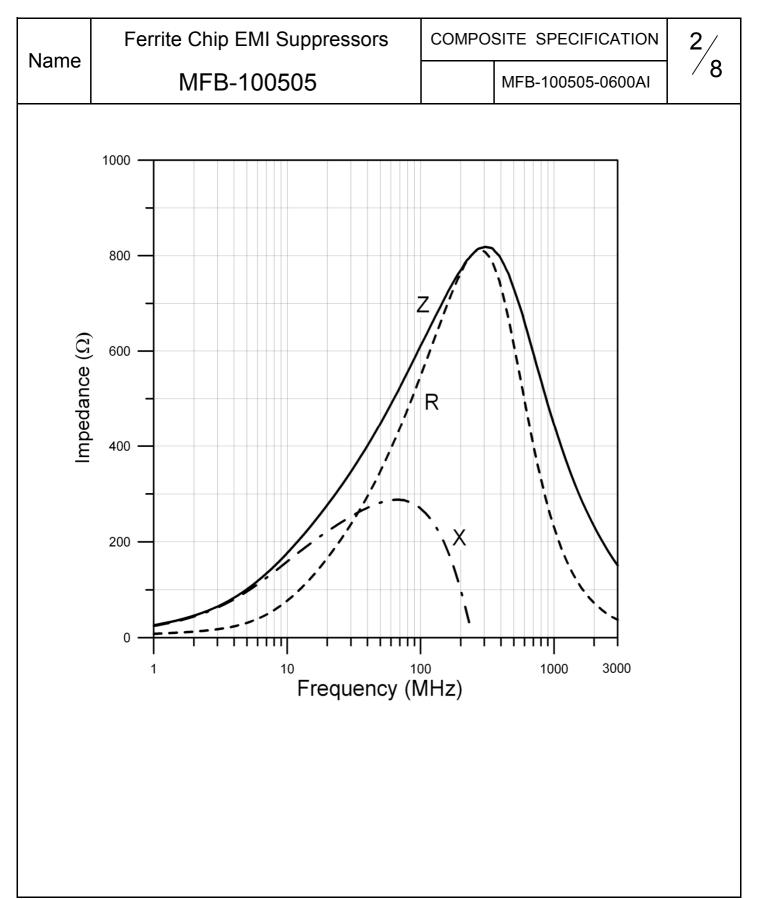


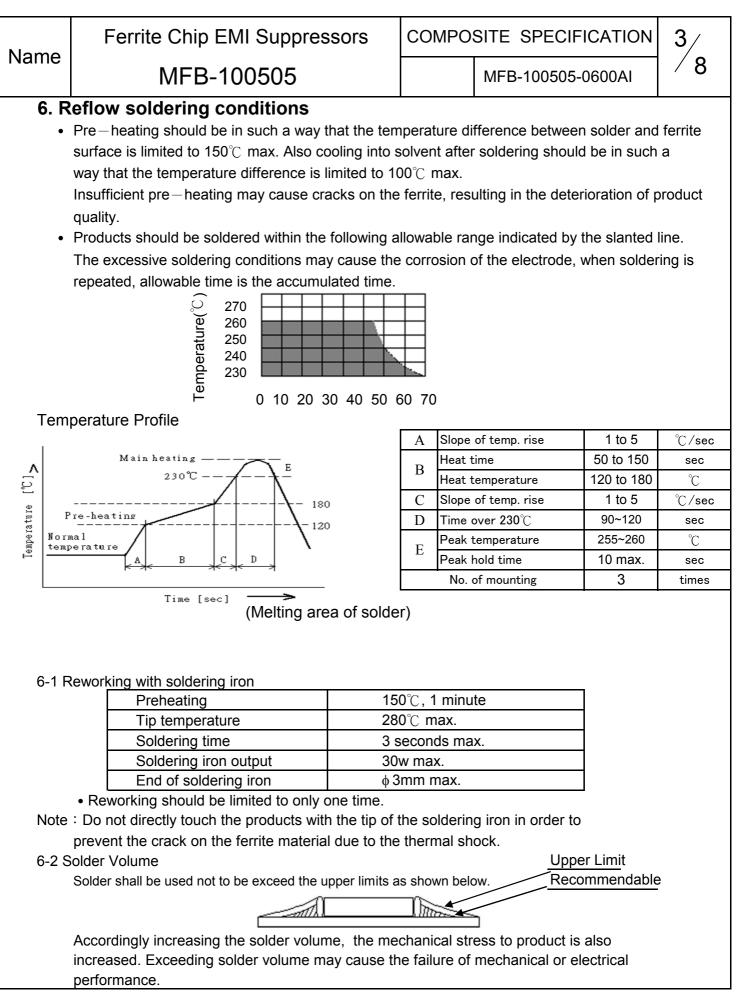
	OPERATING TEMP. RANGE : -55 $^{\circ}$ C ~ +125 $^{\circ}$ C					
	STORAGE TEMP. RANGE : -40℃ ~ +85℃					
unit:	TYPE	L	W	Т	А	
mm	MFB-1005	1±0.05	0.5±0.05	0.5±0.05	0.1~0.3	
(inch)	IVII D-1005	(0.039±0.002)	(0.02±0.002)	(0.02±0.002)	(0.004~0.012)	

5. The Place of Origin :

Taichung, Taiwan

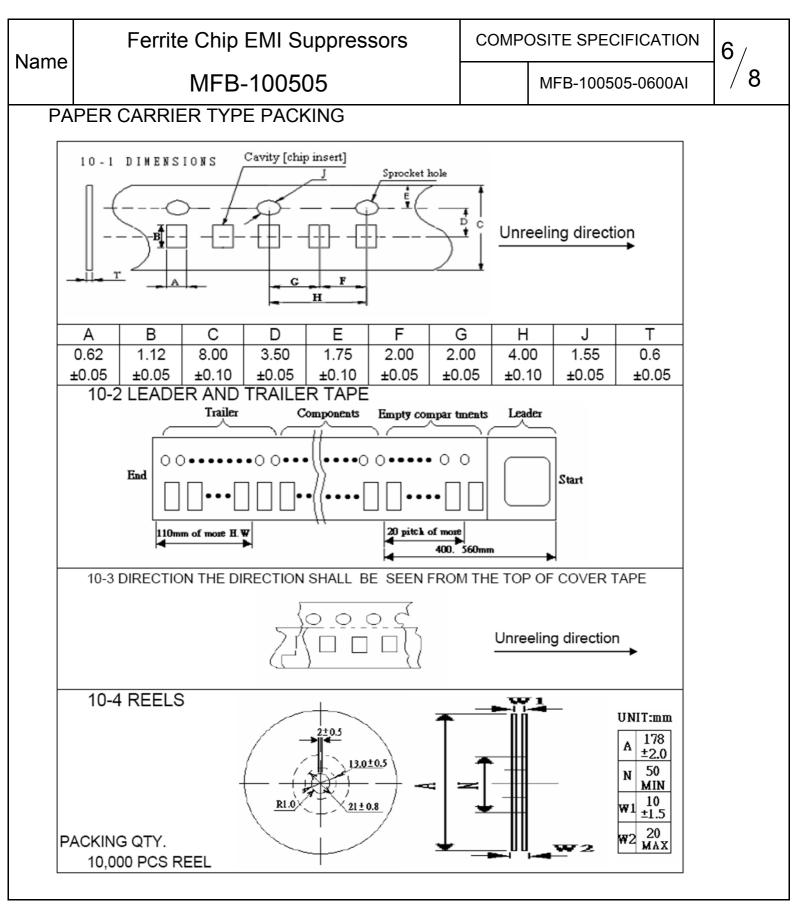
Ī	PLANNED BY	CHECKED BY	APPROVED BY
	LUN	TINA	Chi Chi Huang

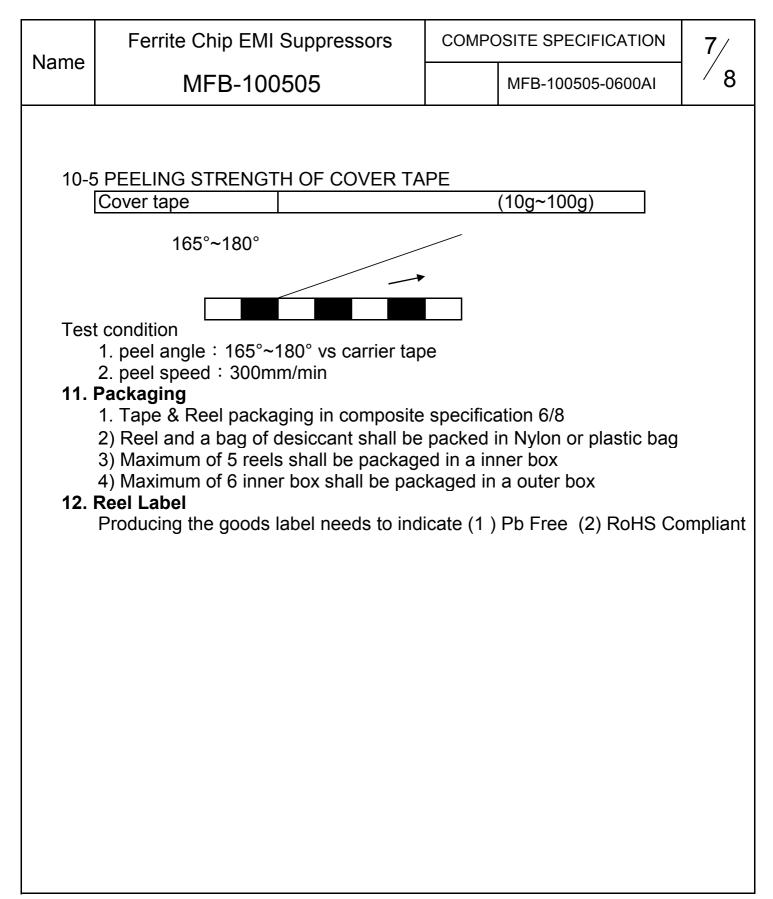




lame	Ferrite Chip EMI Suppressors MFB-100505		COMPOSITE SPECIFICATION	4 /			
anic			MFB-100505-0600AI	8			
<ul> <li>7. Equipment         <ul> <li>7-1 IMPEDANCE                 Impedance shall be measured with HP-4286A impedance                 analyzer or equivalent system                 7-2 DC RESISTANCE                 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>							
		Specification	Test Conditions				
ITEM Terminal Strength Substrate Bending Test		Terminal strength does not distort the case shall meet SPEC DC resistance specifications.	al strength does not distort ase shall meet SPEC DC sistance specifications.       Solder chip on PCB and applied 10N (1.02Kgf) for 10 sec         substrate bending test DC 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.       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 Xers.				
		SPEC substrate bending test DC resistance shall meet specifications.					
	Resistance o Solder HeatNo visible damage Electrical characteristics and mechanical characteristics shall be satisfied.Consult standard MIL-STD-202 METHOD 210						
Solderability 95% min. coverage of all metabolised area Consult standard J-STD-002		metabolised area	Solder temp. : 240±5°C Immersion time : 3±1 sec Solder : Sn-3Ag-0.5Cu				

Nome	Ferrite Chip EMI Suppressors COMPOSITE SPECIFICATION		5/	
Name	MFB-100505		MFB-100505-0600AI	8 \
	<ul> <li>NM ED FOCOCOC</li> <li>RELIABILITY AND TEST CONDITIONS</li> <li>9-1 HIGH TEMPERATURE RESISTANCE <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 te</li> </ul> </li> <li>9-2 Biased Humidity RESISTANCE <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.Humidity: 85 ± 5%RH</li> <li>2. Temperature: 85°C ±2°C</li> <li>3.Testing time: 1000 ± 12 hours</li> <li>4.Measurement : After placing at room ambient te</li> </ul> </li> <li>9-3 TEMPERATURE CYCLE <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.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial</li> <li>b.Test condition</li> <li>1. Low Temperature: -55°C ±5°C kept stabilized f</li> <li>2. High Temperature: -55°C ±5°C kept stabilized f</li> <li>2. Cycle : 1000 cycles</li> <li>3.Measurement : After placing for 24hours minim</li> <li>4. step155°C temp±5°C 30±3 minutes</li> <li>step3. +125°C temp±5°C 30±3 minutes</li> <li>step4. room temperature 2to5 minutes</li> </ul> </li> <li>9-5 Mechanical</li></ul>	emperature f value emperature f value for 30 minute or 30 minute um at room a value s in total.	for 24 hours minimum for 24 hours minimum es each	
	<ul> <li>a. Performance specification</li> <li>1.Appearance : no mechanical damage</li> <li>2. Impedance shall be with ±30% of the initial</li> </ul>	value		
	b.Test condition 1.Temperature: 125°C ±2°C 2.Testing time : 1000±12hrs 3.Measurement : After placing at room ambient te	emperature f	for 24 hours minimum	
	<ul> <li>9-7 Electrostatic discharge test</li> <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> </ul>			
045	1.ESD voltage: 15k volts 2.Mode 1:150 pF/330 Ohm 3.Mode 2:150 pF/2000 Ohm			
-	REMARK reliability test customers if there are special requirements	s in accordar	nce with customer needs	





NAME	Ferrite Chip EMI Suppressors	COMPOSITE SPECIFICATIO		8 /		
	MFB-100505		MFB-100505-0600AI	/ 8		
13.	Storage					
	<ul> <li>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°C or less and 70% RH or less.</li> <li>13-2 The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust or harmful gas (hydrogen chloride, sulfurous acid gas or hydrogen sulfide).</li> <li>13-3 Packaging material may be deformed if packages are stored where they are extored where they are exposed to heat or direct sun – light.</li> <li>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.</li> <li>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</li> </ul>					
	For those parts which passed more than 6 months shall be checked solderability before it is used.					
14. Quality System						
	<ul> <li>■ ISO/TS16949</li> <li>■ IECQ QC 080000</li> </ul>					