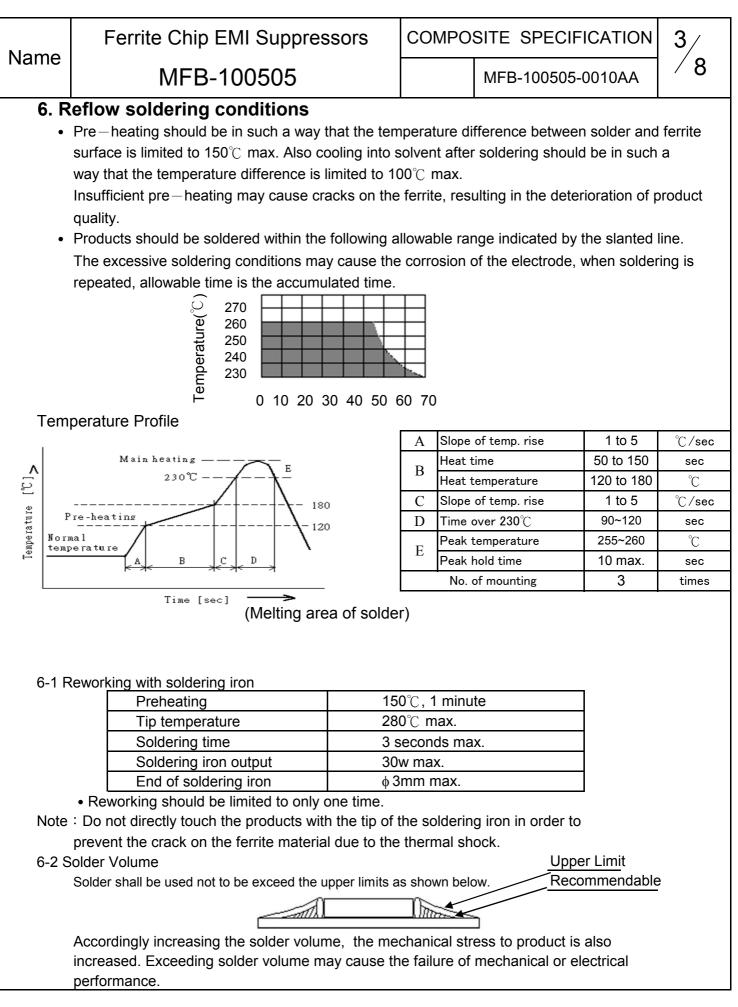
Name	Ferrite Chip EMI Suppressors MFB-100505			COMPOSITE SPECIFICAT			ON	1/	
Iname					MFB-100)505-0010/	AA	8 \	
	1. Scope								
	This specification applies to the MFB-1005 series Ferrite Chip EMI suppressors.								
2. Standard and Atmospheric Conditions									
Unless otherwise specified the standard range of atmospheric conditions for									
making measurements and tests is as follows:									
Ambient temperature : 20±15℃									
Relative humidity : 30~70%									
	If there may be any doubt on the results, measurements shall be made within								
	the following limits :								
	Ambient temperature : 25±5°C								
Relative humidity : 30~70%									
	3. Ratings								
	PART NO	IMPEDANCE (Ω)							
		AT100 MHz 500mV 10±25%		(Ω) Max 0.05		(mA) Max 500			
	FB-100505-0010AA								
The maximum rated current : the DC current value having temperature increased 40 °C after thru DC current 2 hours at ambient temperature.									
	4. Dimensions								
OPERATING TEMP RANGE : -55° ~ $+125^{\circ}$									
	STORAGE TEMP. RANGE : -40 $^{\circ}$ C ~ +85 $^{\circ}$ C						-		
		unit:	TYPE	L	W	Т	A	١	
	×	mm (in th)	MFB-1005	1±0.05	0.5±0.05	0.5±0.05	0.1~		
	and the second sec	(inch)		(0.039±0.002)	(0.02±0.002)	(0.02±0.002)	(0.004~	-0.012)	
1	A								

5. The Place of Origin :

Taichung, Taiwan

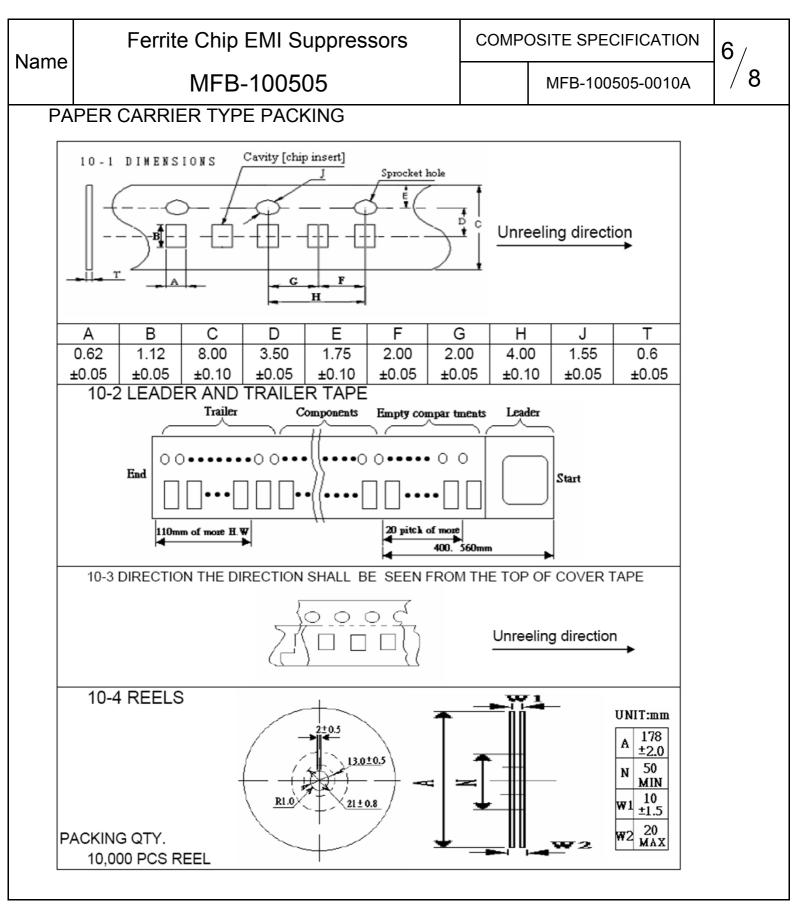
PLANNED BY	CHECKED BY	APPROVED BY
LUN	TINA	Chi Chi Huang

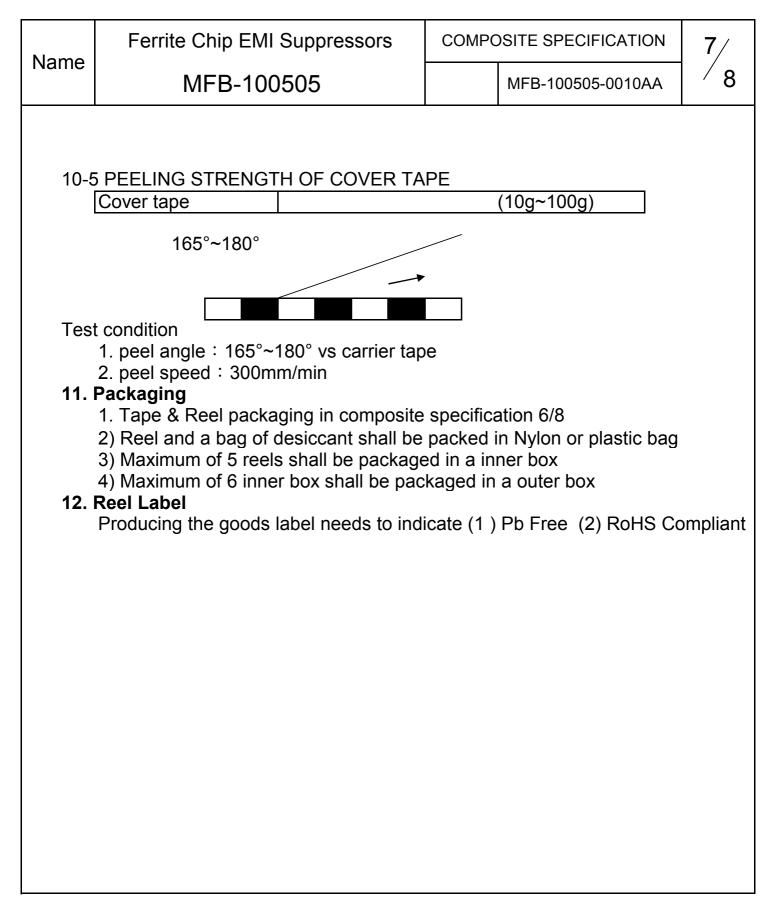
Ferrite Chip EMI Suppressors 2/8 COMPOSITE SPECIFICATION Name MFB-100505 MFB-100505-0010AA 20 16 -11 8 ⁸ 8 R X 4 ۱ 0 i i i m пп 10 100 1000 3000 1 Frequency (MHz)



lomo	Ferrite Chip EMI Suppressors		COMPOSITE SPECIFICATION 4	/		
Name MFB-100505		MFB-100505	MFB-100505-0010AA	8		
	Imp ana 7-2 DC F DC met	EDANCE edance shall be measured with lyzer or equivalent system RESISTANCE	HP-4286A impedance using HP 4338 digital mili-ohm			
	TEM	Specification	Test Conditions			
TerminalTerminal strength does not diStrengththe case shall meet SPEC I		Terminal strength does not distort the case shall meet SPEC DC resistance specifications.				
Substrate Bending Test		SPEC 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.			
Resistance to Solder HeatNo 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			
Solderability 95% min. coverage of all metabolised area Consult standard J-STD-002			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-100505-0010AA	8 \	
 9. RELIABILITY AND TEST CONDITIONS 9.1 HIGH TEMPERATURE RESISTANCE a. Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial value b.Test condition 1.Temperature: 125° ±2° 2. Testing time : 1000±12hrs 3.Measurement : After placing at room ambient temperature for 24 hours minimum 9-2 Biased Humidity RESISTANCE a. Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial value b.Test condition 1.Humidity: 85 ±5%RH 2. Temperature: 85° ±2° 3.Testing time : 1000 ± 12 hours 4.Measurement : After placing at room ambient temperature for 24 hours minimum 9-3 TEMPERATURE CYCLE a.Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial value b.Test condition 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial value b.Test condition 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial value b.Test condition 1. Low Temperature: 125° ±5°° kpt stabilized for 30 minutes each 2. Kroperature: -55° ±5°° kpt stabilized for 30 minutes each 2. Cycle : 1000 cycles 3.Measurement : After placing of 24hours minimum at room ambient temperature 4. step155° C temp±5° 30±3 minutes step3. +126° temp±5° 30±3 minutes step3. +126° temp±5° 30±3 minutes step4. room temperature 205 m					
9 1 6	 1.peak acceleration : 100 g's 2.Duration of pulse : 6 ms 3.Waveform : Half-sine 4.Velocity change : 12.3 ft/sec 5. Direction : X ' Y ' Z (3axes/3 times) 9-6 Operational Life a. Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b.Test condition 1.Temperature: 125°C ±2°C 2.Testing time : 1000±12hrs 3.Measurement : After placing at room ambient to 9-7 Electrostatic discharge test a. Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b.Test condition 1.Temperature: 125°C ±2°C 2.Testing time : 1000±12hrs 3.Measurement : After placing at room ambient to 9-7 Electrostatic discharge test a. Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b.Test condition 1.ESD voltage: 15k volts 2.Mode 1:150 pF/330 Ohm 3.Mode 2:150 pF/2000 Ohm 	emperature f	or 24 hours minimum		





NAME	Ferrite Chip EMI Suppressors	COMPOSITE SPECIFICATION MFB-100505-0010AA		8/8				
	MFB-100505							
13.	13. Storage							
	 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°C or less and 70% RH or less. 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). 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. 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 							
	For those parts which passed more than 6 m be checked solderability before it is used.	onths shall						
14. Quality System								
 ■ ISO/TS16949 ■ IECQ QC 080000 								