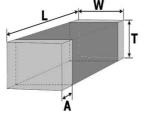
Nomo	Ferrite Chip EMI Suppressors MFB-100505		COMPOSITE SPECIFICATION		1/			
Name				MFB-100)505-0220AF	/ε		
	1. Scope							
	This specification applies to the MFB-1005 series Ferrite Chip EMI suppressors.							
	2. Standard and	Atmospheric Condit	ions					
	Unless otherwise	specified the standard rai	nge of atm	ospheric c	onditions for			
	making measurer	ments and tests is as follo	ws:					
	Ambient temperature : $20\pm15^{\circ}$ C							
	Relative humidity : 30~70%							
	If there may be any doubt on the results, measurements shall be made within							
	the following limits :							
	Ambient temperature : $25\pm5^{\circ}$ C							
	Relative humidity	: 30~70%						
	3. Ratings							
					*			
	PART NO	IMPEDANCE (Ω)	DC RES	ISTANCE	RATED CURR	ENT		
		AT100 MHz 500mV	(Ω)	Max	(mA) Max	<		
Μ	FB-100505-0220AF	220±25%	C	.7	100			
		rrent : the DC current valu 2 hours at ambient temper	•	emperature	e increased 40	Ċ		
	4. Dimensions				: -55℃ ~ +125	°C		
	W	UFERAII		. RANGE	55 (~ +125	U		

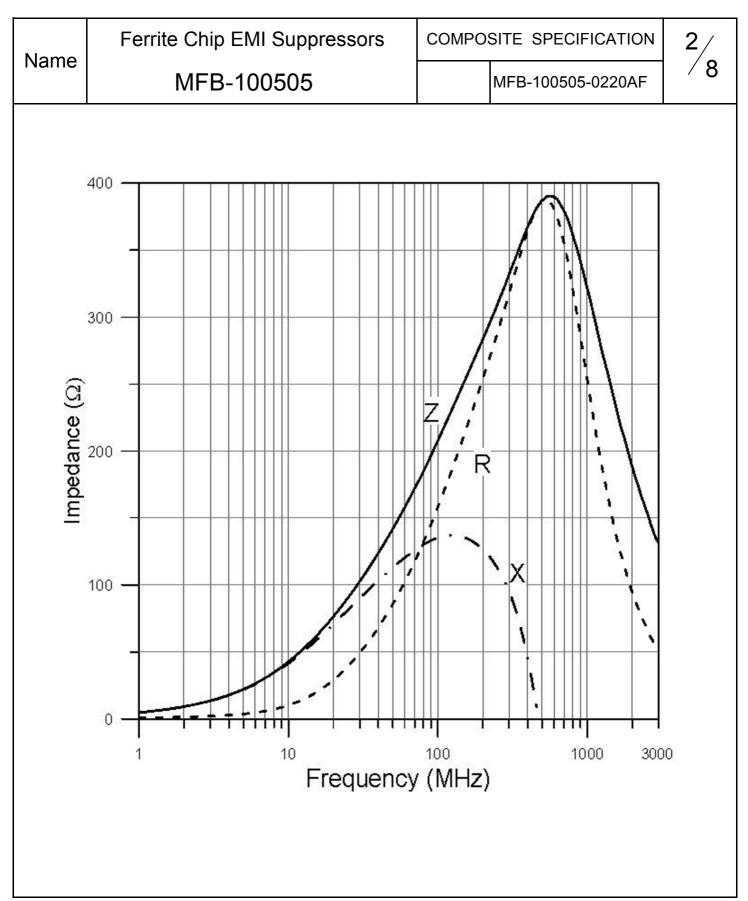


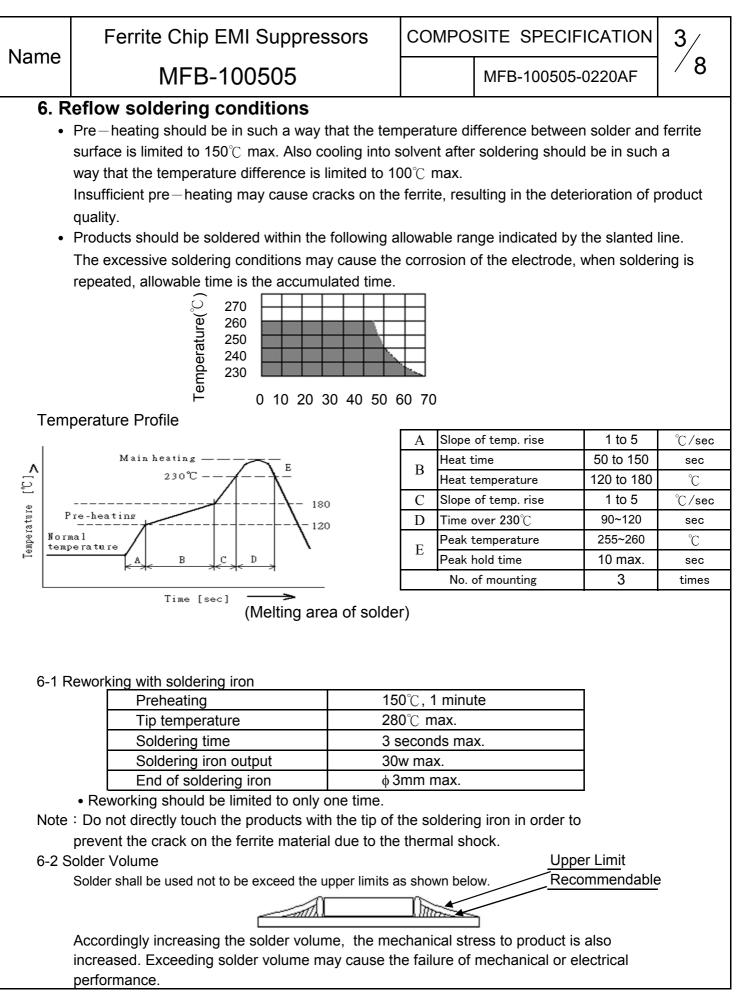
	STORAGE TEMP. RANGE : -40° C ~ $+85^{\circ}$ C				
unit:	TYPE	L	W	Т	А
mm	MFB-1005	1±0.05	0.5±0.05	0.5±0.05	0.1~0.3
(inch)	WII D-1003	(0.039±0.002)	(0.02±0.002)	(0.02±0.002)	(0.004~0.012)

5. The Place of Origin :

Taichung, Taiwan

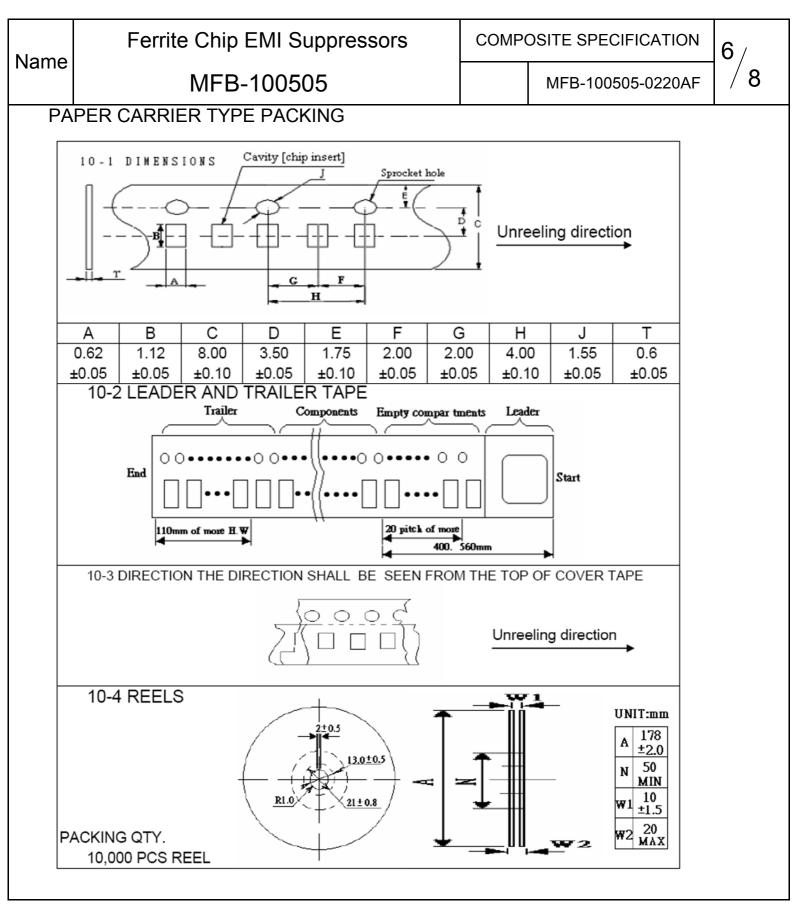
PLANNED BY CHECKED BY A	APPROVED BY
LUN TINA	Chi Chi Huang

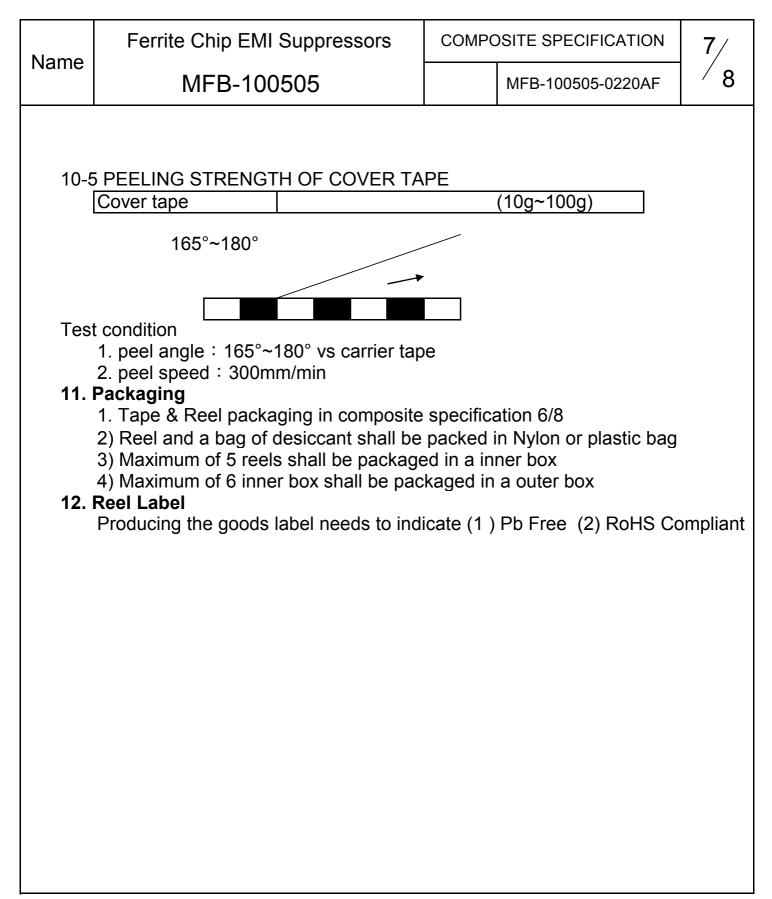




lamo	Ferrite Chip EMI Suppressors MFB-100505		COMPOSITE SPECIFICATION			
lame			MFB-100505-0220AF	8		
 7. Equipment 7-1 IMPEDANCE Impedance shall be measured with HP-4286A impedance analyzer or equivalent system 7-2 DC RESISTANCE DC resistance shall be measured using HP 4338 digital mili – ohm meter with 4 terminal method. 8. Mechanical Characteristics						
	TEM	Specification	Test Conditions			
Terminal Strength		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 o 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		metabolised area	Solder temp. : 240±5℃ Immersion time : 3±1 sec Solder : Sn-3Ag-0.5Cu			

Norse	Ferrite Chip EMI Suppressors	MI Suppressors COMPOSITE SPECIFICATION		5/
Name	MFB-100505		MFB-100505-0220AF	8 / 8
9. 1	 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 b. Test condition 1.Temperature: 125°C ±2°C 2. Testing time : 1000±12hrs 3.Measurement : After placing at room ambient te 9-2 Biased Humidity RESISTANCE a.Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b. Test condition 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b. Test condition 1.Humidity: 85 ± 5%RH 2. Temperature: 85°C ±2°C 3.Testing time: 1000 ± 12 hours 4.Measurement : After placing at room ambient te 9-3 TEMPERATURE CYCLE a.Performance specification 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b. Test condition 1. Low Temperature: - 55°C ±5°C kept stabilized f 2. Cycle : 1000 cycles 3.Measurement : After placing for 24hours minim 4. step155°C temp±5°C 30±3 minutes step2. Room temperature 2to5 minutes step3. +125°C temp±5°C 30±3 minutes step4. room temperature 2to5 minutes step4. room temperature 30% of the initial b. Test condition 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b. Test condition 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b. Test condition 1.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial b. Test condition 9-5 Mechanical Shock TEST a.Performance specif	emperature f value emperature f value for 30 minute or 30 minute or 30 minute s in total. value	for 24 hours minimum for 24 hours minimum es each	/ 8
l	 b.Test condition 1.Temperature: 125°C ±2°C 2.Testing time : 1000±12hrs 3.Measurement : After placing at room ambient te 9-7 Electrostatic discharge test 	emperature f	for 24 hours minimum	
	 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 	value		
-	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 SPECIFICATION		8 /	
	MFB-100505		MFB-100505-0220AF	/ 8	
13.	Storage				
	 13-1The solderability of the external electrode may deteriorated if packages are stored where the exposed to high humidity. Packages must be at 40°C or less and 70% RH or less. 13-2 The solderability of the external electrode may deteriorated if packages are stored where the exposed to dust or harmful gas (hydrogen ch sulfurous acid gas or hydrogen sulfide). 13-3 Packaging material may be deformed if pack stored where they are exposed to heat or dir light. 13-4 Minimum packages, such as polyvinyl heat—shall not be opened until just before they are If opened, use the reels as soon as possible 13-5 Solderability specified in composite specification for 6 months from the date of delivery on cor they are stored at the environment specified 13-1 & 13-2. 	ey are e stored ay be ey are nloride, ages are rect sun— seal package used. tion 4/8 sha ndition that	-		
	For those parts which passed more than 6 months shall be checked solderability before it is used.				
14. Quality System					
	 ■ ISO/TS16949 ■ IECQ QC 080000 				