Name	Ferrite Chip EMI Suppressors MFB-100505			COMPOSITE SPECIFICATION			^{DN} 1/
Name				MFB-100505-1000AJ		AJ	
	1. Scope						I
	This specification	n applies to the	EBMS-10	05 series I	Ferrite Chi	o EMI supr	oressors.
	2. Standard and	• •			·		
	Unless otherwise	-			ospheric c	onditions f	or
	making measurer				·		
	Ambient tempera						
	Relative humidity	: 30~70%					
	If there may be a	ny doubt on the	e 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						
						>	*
	PART NO	IMPEDANCE (Ω)		DC RESISTANCE		RATED C	URRENT
		AT100 MHz 500mV		(Ω) Max		(mA)	Max
М	FB-100505-1000AJ	1000±	25%	1.5			50
% Th	e maximum rated cu	rrent : the DC o	current valu	e having te	emperature	e increased	d 40 ℃
а	fter thru DC current 2	2 hours at amb	ient temper	ature.			
	4. Dimensions						
	W N				P. RANGE	-	-
			STORAG	E TEMF	P. RANGE		-
		••••••	TYPE	L 1±0.05	W	T	A
	and the second sec	mm	MFB-1005	1±0.05	0.5±0.05	0.5±0.05	0.1~0.3

5. The Place of Origin :

Â

Taichung, Taiwan

PLANNED BY	CHECKED BY	APPROVED BY	
LUN	TINA	Chi Chi Huang	鈺鎧文件中心 發行章

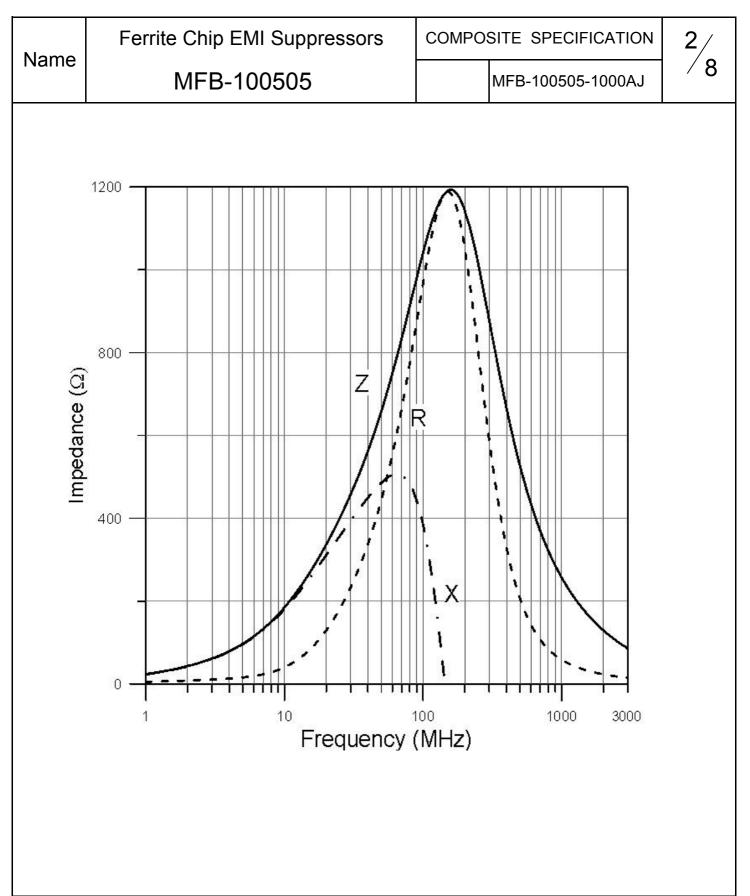
 (0.039 ± 0.002)

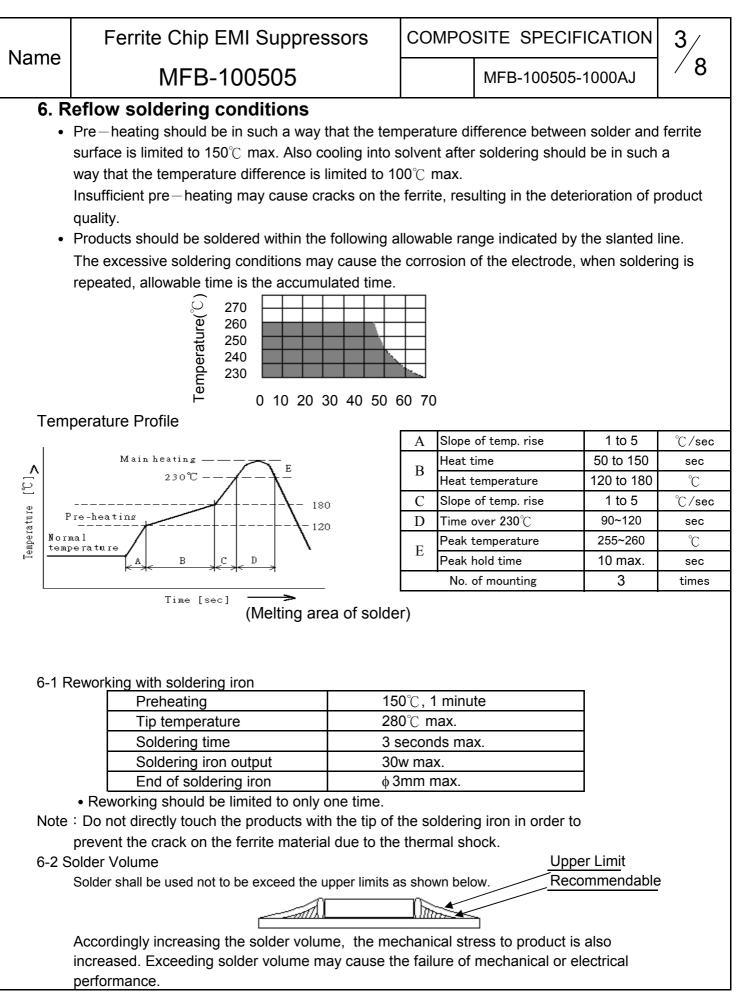
 (0.02 ± 0.002)

(0.004~0.012)

(0.02±0.002)

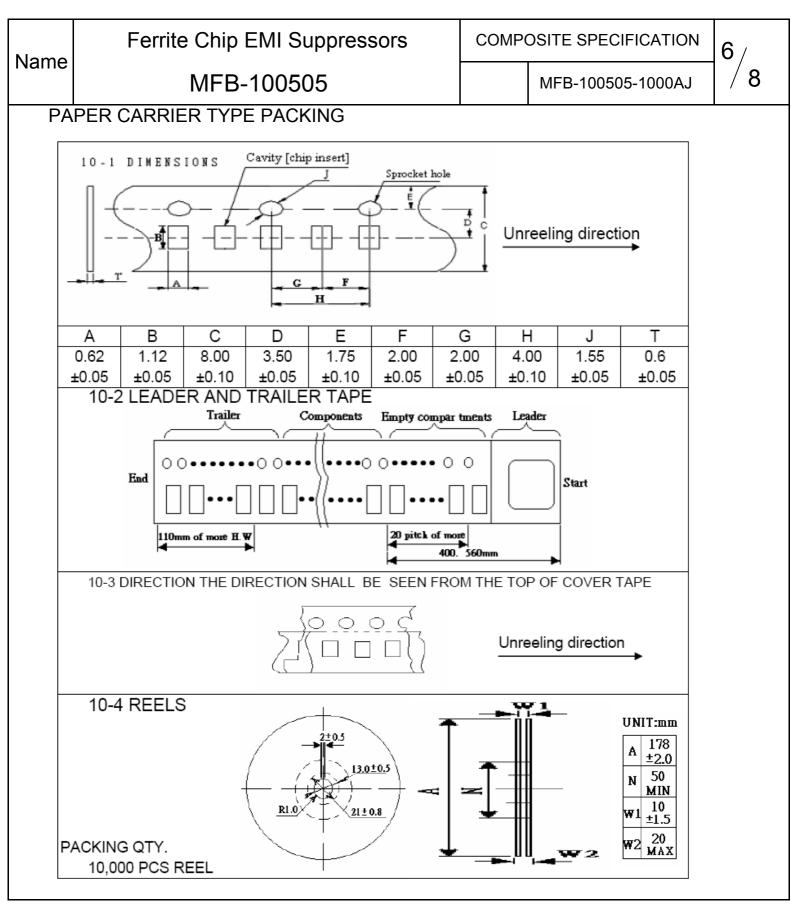
(inch)

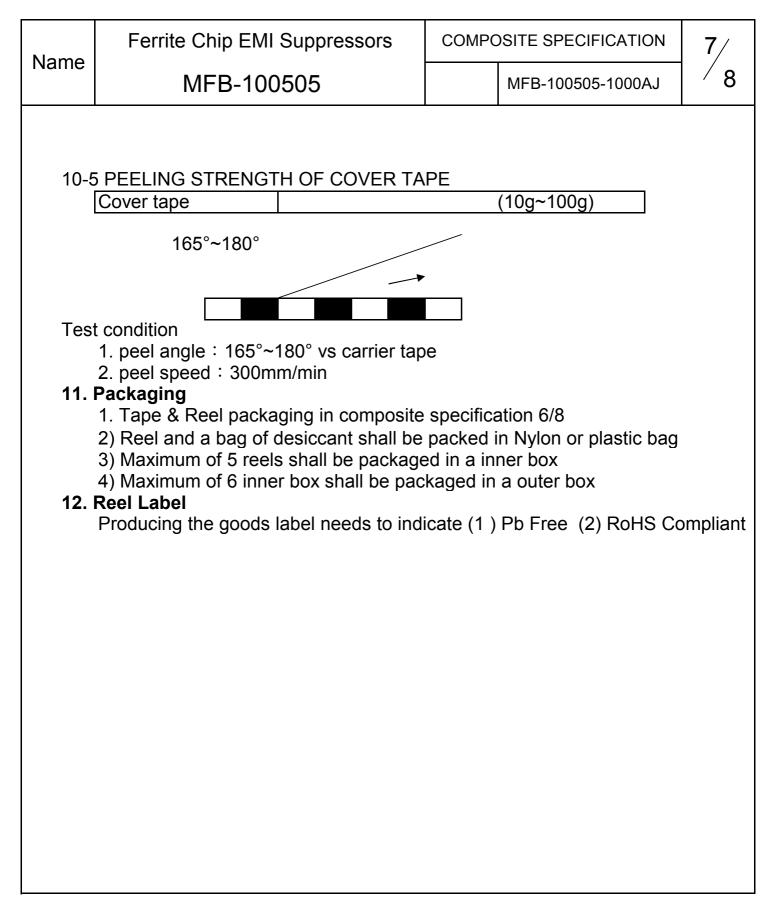




lamo	Ferrite Chip EMI Suppressors		COMPOSITE SPECIFICATION	4 /		
Name MFB		MFB-100505	MFB-100505-1000AJ	8 /		
	Imp ana 7-2 DC F DC met	EDANCE edance shall be measured with lyzer or equivalent system RESISTANCE	HP—4286A impedance using HP 4338 digital mili—ohm			
	ТЕМ	Specification	Test Conditions			
		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.	DC 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		Electrical characteristics and mechanical characteristics shall be satisfied. Consult standard MIL-STD-202	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℃ Immersion time : 3±1 sec Solder : Sn-3Ag-0.5Cu			

Nome	Ferrite Chip EMI Suppressors	COMPOSITE SPECIFICATION	5/		
Name	MFB-100505	MFB-100505-1000AJ	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 C ±2 C 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.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 C ±2°C 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.Appearance : no mechanical damage 2. Impedance shall be with ±30% of the initial value b.Test condition 1. Low Temperature: -55 C ±5 C kept stabilized for 30 minutes each 2. Cycle : 1000 cycles 3.Measurement : After placing for 24hours minimum at room ambient temperature 4. step155C temp±5 C 30±3 minutes step3. +125 C temp±5 C 30±3 minutes step3. +125 C temp±5 C 30±3 minutes step4. room temperature 205 minutes step4. ro					
9.1 6	 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 t 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.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 3.Mode 1:150 pF/330 Ohm 3.Mode 2:150 pF/2000 Ohm 	emperature for 24 hours minimum			





NAME	Ferrite Chip EMI Suppressors	COMPOSITE SPECIFICATION		8 /			
	MFB-100505		MFB-100505-1000AJ	8			
13.	Storage	L					
	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 $^{\circ}$ C or less and 70% RH or less. 12.2 The colderability of the external electrode may be						
	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 pack	ages are					
	stored 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						
	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						
	■ IECQ QC 080000						