Issue No.	:	151ERA011011
Date of Issue	:	February 15.2011
Classification	:	■ New □ Changed

PRODUCT SPECIFICATION FOR APPROVAL

Product Description	:	Metal Film (Thin Film)Chip Resistors (RoHS Compliance)
Product Part Number	:	ERA3Y##***V
		ERA3E##****V
Country of Origin	:	JAPAN

Applications : Standard electronic equipment

*If you approve this specification, please fill in and sign the below and return 1 copy to us.

Approval No	:	
Approval Date	:	
Executed by	:	
		(signature)
Title	:	
Dept.	:	

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Subject	Spec. No.			
Metal Film(Thin Film) Chip Resistors PRODUCT SPECIFICATION FOR INFORMATION	151-SRA-F102R			
	10-2			
Rated voltage & Limiting element voltageThe rated voltage of each resistance should be call equation below, and when the rated voltage exc element voltage, the limiting element voltage should voltage. $E = \sqrt{P \times R}$ $E : Rated voltage (V)Limiting element voltage; 75E : Rated resistance value (\Omega)$	alculated from the eeds the limiting buld be the rated			
Tolerance for resistanceCode.Tolerance for resis.D \pm 0.5%B \pm 0.1%				
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	s :special 6 series overlap s, E-24 series the first priority			
4. Explanation of Part Number				
ERA3YED10	2 V			
(1) (2) (3) (4) (5) (6) (1) Product Code : Metal Film Chip Resistors (2) Size and Rated Power : 1.6 mm x 0.8 mm, 0.10W	(7)			
(3) Series and marking				
Code Series Marking				
Y E-24 series 3 digit marking				
Code T.C.R. Resistance range				
H ± 50x10 ⁻⁶ /°C 10Ω ~ 97.6Ω				
E ± 25×10^{-6} /°C 100Ω ~ 33 kΩ				
<u>K</u> ±100x10 ⁻⁶ /°C 33.2kΩ ~ 330kΩ				
(5)Resistance Tolerance				
Code Resistance Tolerance				
D + - 0.5%				
(6) Resistance Value				
$<$ E-24 series> 3-digits type 123 \rightarrow 12×10 ³ \rightarrow 12k Ω				
$<$ E-96 series> 4-digits type 3012 \rightarrow 301×10 ² \rightarrow 30.1k Ω				
(7) Packaging Configuration				
Code Packaging Configuration				
V I aping (5000pcs/reel)				

Sub	ject			Spec. No.		
Metal Film(Thin Film) Chip Resistors PRODUCT SPECIFICATION FOR INFORMATION Part No				151-SRA-E102R		
ı aı		ERA3		10-3		
5	Annearance & (Construction				
	Item	Rated value	Explanatio	n		
	Appearance a Constructior	 The resistive element that don't fade easily unevenness, flaw, p The electrode should dimensions. The plat unevenness, flaw, p The electrode should resistive element. 	nt should be covered with prote ly. The surface of coating shou pinhole and discoloration. d be printed uniformly, as show ating should not fade easily, ar pinhole, projection and discolor d be connected electrically, me	ective coating Ild avoid vn in the nd should avoid ration. echanically to		
-	As far as th	nere shall not designation esp	ecially, the following test and r	neasurement		
	normal atm	hospheric pressure(8.6×10^4 ·	$\sim 1.06 \times 10^5 \mathrm{Pa}$).	lty(25~75%),		
6. Г	Performance Sp	pecification				
	Item	Chip Resistor	Explanatio	n		
	DC Resistance	DC Resistance value shall be within the specified tolerance	At 20°C, 65%RH			
	Temperature Coefficient	$\begin{array}{ c c c c c }\hline Resit. \ range & TCR \\\hline 10\Omega & \pm 50x10^{-6}/^{\circ}C \\\hline & \sim 97.6\Omega & \pm 25x10^{-6}/^{\circ}C \\\hline 100\Omega & \pm 25x10^{-6}/^{\circ}C \\\hline & \sim 33 \ k\Omega & \pm 100x10^{-6}/^{\circ}C \\\hline & \sim 330 \ k\Omega & \pm 100x10^{-6}/^{\circ}C \\\hline \end{array}$	Natural resistance change Temperature degree centive $\frac{R2-R1}{R1(t2-t1)} \times 10^{6}$ (10 ⁻⁶ / R1 : Resistance value at resistance value at resistance value temperature(t1) R2 : Resistance value temperature(t2) t2-t1 = 100°C t1 = 25°C	per grade. ℃) eference at test		
	Short-time overload	± (0.5 % + 0.1Ω)	Resistors shall be applied 2.5 rated voltage for 5 seconds. However, the upper limit of t test shall be 150V.	i times the he voltage in the		
	Dielectric Withstanding	No evidence of flashover, mechanical damage, arcing or insulation break- down	AC 100V between substrate and the substrate and	termination for AC powersupply or Insulation resistance		
	Insulation Resistance	Min. 1,000Μ Ω	Resistors shall be facing down. 100V to the resistor, insulation i measured.	After applying DC resistance shall be		

Subject				Spec. No.
Metal Film(Th	151-SRA-E102R			
ERA3				10-1
				10-4
7. Mechanica	al chai	acteristic		
Item		Chip Resistor	Explanation	
Bond stre	ength face	Without distinct deforma- tion in appearance	Substrate : Glass epo Span : 90mm Bending distance:3mm (10 1.0 1.0 1.0	oxy(t=1.6mm)) seconds) (unit: mm)
of the face plating		± (0.5 % + 0.05Ω)	↓ 100	
Solderabili	ty	Termination should be covered uniformly with solder (min. 95% coverage)	Resistors shall be dipped in der bath at 235 ± 5 °C for 2 Flux shall be removed from the of termination with clean organized	the melted sol- ± 0.5 sec. The surface anic solvent.
Resistance Soldering H	e to Heat	± (0.5 % + 0.05Ω)	Resistors shall be dipped in the solder bath at 270 ± 3 °C for	he melted $10\pm1^{\circ}$ C sec.
		Without distinct deformation in appearance	olvent solution : Isopropyl alco (1)Dipping 10 +/- 1 hours, or condition for 30 +/- 10 minut	ohol dry in room tes.
Solvent	e to	± (0.5 % + 0.05Ω)	(2)Ultrasonic wave washing (0.3W/cm ² ,28k Dry in room condition minutes.	: 5 +/- 1 min. Hz) for 30 +/-10

Subject Metal Film(Thin Film) Chin Resistors, PRODUCT SPECIFICATION FOR INFORMATION				Spec. No.		
Par	151-SRA-E102R					
	ERA3					
8	. Environment Test					
	Item	Specifications Chip Resistor	- Explanation			
	High Temperature Exposure	± (0.5 % + 0.05Ω)	Resistors shall be exposed a for $1000 \pm_0^{48}$ hours.	it125±3°C		
	Rapid change of temperatrure	\pm (0.5 % + 0.05Ω) \downarrow^{\uparrow} Normal Within 3minut \downarrow^{\uparrow} 125 ± 3 °C 30minutes		5 cycles		
	Damp heat , Steady State	± (0.5 % + 0.05Ω)	Resistors shall be exposed a and 90~95% relative humic test chamber for $1000 \pm_0^{48}$ how	it 60±2°C lity in a humidity urs.		
	Load Life	± (1.0 % + 0.1Ω)	Resistors shall be exposed at $70\pm2^{\circ}$ C at $1000\pm_{0}^{48}$ hours. During this time. The rated voltage shall be applied interm tently for 1.5 hours ON,0.5 hours OFF.			
	Load Life in Humidity	± (1.0 % + 0.1Ω)	Resistors shall be exposed to at $40\pm2^{\circ}$ C a 90~95% relative humidity for $1000\pm_{0}^{48}$ hour During this time the rated voltage shall applied intermittently for 1.5 hours ON, hours OFF.			

9. Marking

Express resistance value on resin side with three digits. (For example)



 $101 \rightarrow 100\Omega$ The first two digits are significant figures of resistance and the third one denotes number of zeros following.

★ E-96 series: No marking

Metal Film(Thin Film) Chip Resistors PRODUCT SPECFICATIONFORINFORMATION 151-SRA-E102R Part No. E R A 3 10-6 10. Common Precautions in Handling Resistors // Notice for use 10-6 (1) This specification shows the quality and performance of a unit component. Before adoption, be sure to evaluate and verify the product mounting it in your product. (2) We take no responsibility for trolbes caused by the product usage that is not specified in this specification. (3) In advance-notification to us is required in case you demand high reliability in the resistors because there is a possibility that at boote or a failure in our resistor which is used in your transportation units (e.g. Trains, cars, ships, trafic signal equipment etc.), occan floor equipment, netical equipment, national gas equipment power station control equipment, information control equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety: "Texus realety by the system in which he protective circuits and/or protective equipment are installed. (2) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operate your technical examination. (3) The product is designed to use in general standard applications of general electric equipment information and communication equipment, electrother adout safety for this product, be sure to inform us rapidly. (3) When eight to use in the following special environments, and such environmental conditions may affect the product size of the product use and organic solvent	Subject	Spec. No.
Part No. Er R A 3 10-6 10. Common Precautions in Handling Resistors 10-6 11. This specification shows the quality and performance of a unit component. Before adoption, be sure to evaluate and verify the product mounting it in your product. (2) We take no responsibility for troubles caused by the product usage that is not specified in this specification. (3) In advance-notification to us is required in case you domand high felability in the resistors because there is a possibility that a trouble or a failure in our resistor which is used in your transportation units (e.g., Trains, cars, ships, traffic signal equipment, exister ad critice preventive equipment, various safety devices, and the equivalent equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety: "Ensure safety by the system in which he protective circuits and/or protective equipment are installed. Tensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidy, operate your lechnical examination. (5) The product is designed to use in general standard applications of general equipment. Horomation and communication equipment. Hor Oradiances, office equipment. (4) When a dogma shall be occurred about safety for this product, be sure to information and communication equipment. Hor Oradiances, office equipment. (5) The product is designed to use in general standard applications of general elability e	Metal Film (Thin Film) Chip Resistors PRODUCT SPECIFICATION FOR INFORMATION	
E RA3 10-6 10. Common Precautions in Handling Resistors	Part No.	151-5KA-E102K
 Common Precautions in Handling Resistors A Notice for use This specification shows the quality and performance of a unit component. Before adoption, be sure to evaluate and verify the product mounting it in your product. We take no responsibility for troubles caused by the product usage that is not specified in this specification. In advance-notification to us is required in case you demand high reliability in the resistors because there is a possibility that a trouble or a failure in our resistor which is used in your transportation units (e.g. Transp. cars, ships, traffic signal equipment, advance-notification to us is requipment, which as used in your transportation units (e.g. Transp. cars, ships, traffic signal equipment, advance-notification to us is requipment, which as used in your transportation units (e.g. Transp. cars, and the equivatent equipment may cause critical damage occurrence such as loss of life or property. In addition, use failure advance to the proventing equipment, voltang staffy devices, and the equivatent equipment with a single failure does not cause unsafely by installing such as redundant circuits. When a dogma shall be occurred about safely for this product, be sure to inform us rapidly, operate your technical examination. The product is designed to use in general standard applications of general electric equipment, find to consideration. Accordingly, the use in the following special environments, and such environmental information and communication equipment, volical performance, reliability, etc. thoroughly. Use in places full or corsive gases such as sea treeze. (Jc, HS, NH₂, SO, and NO₂, 4) Use in environments in unducty product, protoucly for to usey amypheres. Use in places full or corsive gases such as sea treeze. (Jc, HS, NH₂, SO, and NO₂, 4) Use in environme	ERA3	10-6
 Common Precautions in Handling Resistors Notice for use This specification shows the quality and performance of a unit component. Before adoption, be sure to evaluate and verify the product mouting it in your product. We take no responsibility for troubles caused by the product usage that is not specified in this specification. In advance-notification to us is required in case you demand high reliability in the resistors because there is a possibility that a trouble or a failure in our resistor which is used in your transportation units (e.g. Trains, cars, ships, traffic signal equipment etc.), cecan floor-equipment, medical equipment, advance-notification to us is required in a case vocure on control equipment, information control equivalent equipment, disaster and crime preventive equipment, advances, and the equivalent equipment may cause critical damage occurrence such as loss of ite or property. In addition, use fait-safe design as mentioned below for preventing extensive damage and for ensuring the safety by the system in which he protective circuits and/or protective equipment are installed. "Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (3) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operatel submitsed in a case (unsafet by calcured about safety for tho usay atmospheres. style of the use in the following special environments, and such environmental conditions may affect the performance of the product: prior to use, verify the performance, reliability, etc. thoroughly. 1) Use in liquid submit and usay atmospheres. 3) Use in places fuil of corrosive gases such as see b		
 Common Precautions in Handling Resistors A Notice for use This specification shows the quality and performance of a unit component. Before adoption, be sure to evaluate and verify the product mounting it in your product. We take no responsibility for toubles caused by the product usage that is not specified in this specification. In advance-notification to us is required in case you demand high reliability in the resistors because there is a possibility that at rouble or a failure in our resistor which is used in your transportation units (e.g. Trans, cars, ships, traffic signal equipment etc.), ocean floor-equipment, medical equipment, alerospace equipment, electrothermal goods, combustion and gas equipment, prover station control equipment, motions safely devices, and the equivalent equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing equipment, and safely devices, and the equipment, rotal ansafe addition as mentioned below for preventing equipment, informage and for ensuring the safety. "Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operaley our technical examination. (5) The product is designed to use in general standard applications of general electric equipment (AV products, household electric appliances, office equipment, information and communication equipment, etc.) hence, it do not take the use under the following special environments into consideration. Also and the performance of the product and organic solvent. U use in liquic such as wells as sea breeze, C. H, HS, NH, SO, and NOx. Where reolitul circui		
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 evaluate and verify the product mounting it in your product. (2) We take no responsibility for throubles caused by the product usage that is not specified in this specification. (3) In advance-notification to us is required in case you demand high reliability in the resistor because there is a possibility that a trouble or a failure in our resistor which is used in your transportation units (e.g. Trains, cars, ships, traffic signal equipment, taking equipment, diaster and crime preventive equipment, actions safety devices, and the equivalent equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety. *Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operate your technical examination. (5) The product is designed to use in general standard applications of general electric equipment, information and communication equipment, etc.): hence, it do not take the use under the following special environments into consideration. (4) When a dogma shall be occurred about safety for to use, verify the performance, reliability, etc. thoroughly. (1) Use in liquids such as water, oil, chemical, and organic solvent. (2) Use under thered subility, in outdoor or in dusty atmospheres. (3) Use in product is dose to a heading component, or where an inflammable such as a polywinyl chloride wire is arranged close to the product. (4) Where the resistor is scaled or coaled with resist electricity or strong electronemand. (5) The product is dose to a heading component, and such environmental conditions may affect the performance or the product is electricity or strong electronemate and NO_x. (4) Use in environment with large s	(1) This specification shows the quality and performance of a unit component. Before adopt	otion, be sure to
 (2) We take no responsibility for troubles caused by the product usage that is not specified in this specification. (3) In advance-notification to us is required in case you demand high reliability in the resistors because there is a possibility that a trouble or a failure in our resistor which is used in your transportation units (e.g. Trains, cars, ships, traffic signal equipment, elocito, ocean floor-equipment, nower station control equipment, information control equipment, troialing equipment, disaster and crime preventive equipment, various safety devices, and the equivalent equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety. * Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operate your technical examination. (5) The product is designed to use in general standard applications of general electric equipment. (AV products, household electric appliances, office equipment, information and communication equipment, etc.). hence, it do not take the use under the following special environments into consideration. Accordingly, the use in the following special environments, and such environmental conditions may affect the performance of the product; prior to use, verify the performance, reliability, etc. thoroughly. 1) Use in derivers sunglit, in outdoor or to use, verify the performance, reliability, etc. thoroughly. 1) Use in environment with large static electrici or strong electromagnetic waves or strong radial ray. 5) Where the product is close to a heating component, or where an inflammable such as a polyinyl, choride wire is arranged close to the product. 6) Where inder ourigit at the resistor is scaled or corder wi	evaluate and verify the product mounting it in your product.	
 (c) In advance-holinication to as in equipme in our esistor which is used in your transportation units (e.g. Trains, cars, ships, traffic signal equipment ic.), ocean floor-equipment, medical equipment, assert you and the equipment, training equipment, disaster and crime preventive equipment, various safely devices, and the equivalent equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety: "Ensure safety by the system in which the protective circuits and/or protective equipment are installed. "Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operate your technical examination. (5) The product is designed to use in general standard applications of general electric equipment, the tollowing special environments, and such environmental conditions may affect the performance of the product; prior to use, verify the performance, reliability, etc. thoroughy. (1) Use in liquids such as water, oil, chemical, and organic solvent. (2) Use under direct sunlight, in outdoor or in dusty atmospheres. (3) Use in places full of corrosive gases such as sea breeze, Cl₂, H₂S, NH₃, SO₂, and NO₂. (4) When the product is close to a heating component, or where an inflammable such as a polywiny chloride wire is aranged close to the product. (5) Where the product col close to a heating component, or where an inflammable such as a polywiny chloride wire is aranged close to the product. (6) When the product is close to a heating component, or where an inflammable such as a polywiny chloride wire is aranged close to the product. (7) Where solvent, water, or water, soluble detergent is used in cloaning free soldering and in flux clean	(2) We take no responsibility for troubles caused by the product usage that is not specified (2) In advance patification to us is required in case you domand high reliability in the resistence.	in this specification.
 ships, traffic signal equipment etc.), ocean floor-equipment, medical equipment, aerospace equipment, relectrohermal goods, combustion and gas equipment, power station control equipment, information control equipment (ataling equipment) (assister and crime preventitive equipment), various safety devices, and the equivalent equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety: * Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operate your technical examination. (5) The product is designed to use in general standard applications of general electric equipment (AV products, household electric appliances, office equipment, relation and communication equipment, etc.): hence, it do not take the use under the following special environments into consideration. Accordingly, the use in the following special environments, and such environmental conditions may affect the performance of the product, for to use, verify the performance, reliability, etc. thoroughly. 1) Use in liquids such as water, oil, chemical, and organic solvent. 2) Use under direct sunlight, in outdoor or in dusty atmospheres. 3) Use in places full of corrosive gases such as sea threeze, Clz, H₂S, NH₃, SO₂, and NO₂. 4) Where the product is close to a heating component, or where an inflammable such as a polywiny choride wire is aranaged close to the product. 6) Where the resistor is sealed or coated with resin etc. 7) Where solvent, water, or water-soluble detergent is used in cleaning free soldering and in flux cleaning after soldering (Reay Voati ar attention to water soluble flux). 8) Use in such a place where the product is by envice e	possibility that a trouble or a failure in our resistor which is used in your transportation u	nits (e.g. Trains cars
 electrothermal goods, combustion and gas equipment, power station control equipment, information control equipment, rotating equipment (isaster and crime preventing equipment), information control equipment may cause critical damage occurrence such as loss of life or property. In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety: "Ensure safety by the system in which the protective circuits and/or protective equipment are installed. "Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operate your technical examination. (5) The product is designed to use in general standard applications of general electric equipment (AV products, household electric appliances, office equipment, information and communication equipment, etc.): hence, it do not take the use under the following special environments into consideration. Accordingly, the use in the following special environments, and such environmental conditions may affect the performance of the product: prior to use, verify the performance, reliability, etc. thoroughly. 1) Use in eliquids such as water, oit, chemical, and organic solvent. 2) Use under direct sunlight, in outdoor or in dusty atmospheres. 3) Use in places full of corosive gases such as sea breeze, Cl₂, H₂S, NH₂, SO₂, and NO₂. 4) Where the product is close to a heating component, or where an inflammable such as a polywiny chloride wire is arranged close to the product. 6) Where the product is close to a heating component, or where an inflammable such as a polywiny chloride wire is arranged close to the product. 7) Where solvent, water, or water-soluble detergent is used in cleaning free soldering and in flux cleaning after soldering (P4) yould as	ships, traffic signal equipment etc.), ocean floor-equipment, medical equipment, aerosp	ace equipment,
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 In addition, use fail-safe design as mentioned below for preventing extensive damage and for ensuring the safety: "Ensure safety by the system in which the protective circuits and/or protective equipment are installed. "Ensure safety by the system in which a single failure does not cause unsafety by installing such as redundant circuits. (4) When a dogma shall be occurred about safety for this product, be sure to inform us rapidly, operale your technical examination. (5) The product is designed to use in general standard applications of general electric equipment. (AV products, household electric appliances, office equipment, information and communication equipment, etc.): hence, it do not take the use under the following special environments into consideration. Accordingly, the use in the following special environments, and such environmental conditions may affect the performance of the product: prior to use, verify the performance, reliability, etc. thoroughly. 1) Use in liquids such as water, oil, chemical, and organic solvent. 2) Use in places full of corrosive gases such as sea breeze, CL, HS, NH₂, SO₂, and NO_x. 4) Use in environment with large static electricity or strong electromagnetic waves or strong radial ray. 5) Where the product is close to a heating component, or where an inflammable such as a polyvinyl choride wire is arranged close to the product. 6) Where the resistor is sealed or coaded with resin etc. 7) Where solvent, water, or water-soluble detergent is used in cleaning free soldering and in flux cleaning after soldering. (Pay particular attention to water-soluble flux.) 8) Use in such a place where the product is wetted due to dew condensation. (6) If transient load (heavy load in a short time) kecomic acurd on your own board. When the load or more than rated power is applied under the load condition at steady state, it may impair performance and/or r	equipment, rotating equipment, disaster and crime preventive equipment, various safety	/ devices, and the
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Subject	Spec No
Metal Film(Thin Film) Chip Resistors PRODUCT SPECIFICATION FOR INFORMATION	орее. не.
Part No.	151-SRA-E102R
ERA3	10-7
 Storage Method If the product is stored in the following environments and conditions, th solderability may be badly affected, avoid the storage in the following enviror (1) Storage in places full of corrosive gases such as sea breeze, Cl₂, H₂S, NO_x. (2) Storage in places exposed to direct sunlight. (3) Storage in places outside the temperature range of 5 °C to 35 °C and h 45 %RH to 85 %RH. (4) The period of guarantee for performance such as solderability is 1 year delivery; and this condition applies only to the case where the storage n in item (1) to (3) has been followed. Laws and Regulations (1) This product compiles with the RoHS Directive (Restriction of the use o substances in electrical and electronic equipment (DIRECTIVE 2002/93 (3) All materials used in this part contain no brominated materials of Pt the flame-retardant. (5) If you need the notice by letter of "A preliminary judgement on the laws foreign exchange and foreign trade control", be sure to let us know. Production Site Country: Japan Plant: Panasonic Electronic Devices Japan Co., Ltd. 	ne performance and nments. NH ₃ , SO ₂ , and numidity range of after our nethod specified mical controlled of certain Hazardous 5/EC)). ncerning the es. BBO _S or PBB _S as s of Japan



The top tape shall not tear off after exposure at 60 °C, 90 %RH to 95 %RH for 120 h. (3) Peeling strength

Peeling strength shall be within 0.049 N to 0.49 N. There shall be no burr or breakage after test. Test method is as follows:

