	•	151XC24C08102
Date of Issue	:	October 27.2008
Classification	:	■ New □ Changed

PRODUCT SPECIFICATION FOR APPROVAL

Product Description	:	Common Mode Noise Filter Array (RoHS)
Product Part Number	:	EXC28CG***U

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.	:			

Circuit Components Business Unit	Prepared by	:	Engineering Section
Panasonic Electronic Devices Co., Ltd.	Contact Person	:	
	Signature		M.Takeda
401 Sadamasa-cho,	Name(Print)		
Fukui City 910-8502 Japan	Title	:	
	Authorized by	:	
Phone : +81-776-56-8034	Signature		Y.Morimoto
Fax :+81-776-56-3114	Name(Print)		
	Title :		Manager of Engineering

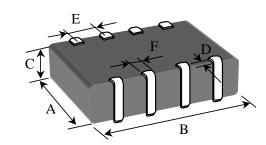


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1. Scope

This specification is applicable to Common Mode Noise Filter, used for general electronic equipment.

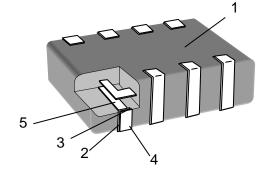
2. Dimensions in mm (not to scale)



Unit: mm (inch)

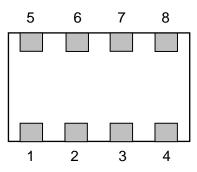
A	В	С	D	E	F
1.00±0.15	2.0±0.2	0.5±0.1	0.20±0.15	0.5±0.1	0.25±0.10
(.039±.006)	(.079±.008)	(.020±.004)	(.008±.006)	(.020±.004)	(.010±.004)

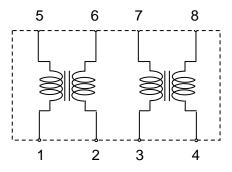
3. Structure



1	Ni-Zn Ferrite
2	Outer Termination(Ag)
3	Ni Plate
4	Sn Plate
5	Inner Conductor(Ag)

4. Schematic





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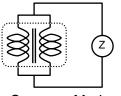
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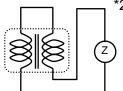
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5. Part Number	
EXC 2 8 C G 900 U	
$\frac{E X C}{1} \frac{2}{2} \frac{8}{3} \frac{C}{4} \frac{G}{5} \frac{9 \ 0 \ 0}{6} \frac{U}{7}$	
1) Product Code EXC: Noise Suppression Filter	
2) External Dimensions 2: (L) 1.00 mm	
3) Number of Terminations 8: 8 pins	
4) Type C: Coupled Type	
5) Characteristics G: For Gbps Differential Transmission	ו
6) Nominal Impedance Value ex) 900: $\underline{90} \times 10^{0}$ (Ω)	
7) Packaging U: Embossed Tape	
 3) Number of Terminations 8: 8 pins 4) Type C: Coupled Type 5) Characteristics G: For Gbps Differential Transmission 6) Nominal Impedance Value ex) 900: <u>90</u> × 10⁰ (Ω) 	١

6. Rating

Part No.	Common Mode Impedance ^{*1} at 100MHz	Differential Mode Impedance ^{*2} at 100MHz	Rated Voltage (V DC)	Rated Current (mA DC)	DC Resistance (Ω max.)
EXC28CG240	24(Ω)±25(%)	$15(\Omega)$ max.	5	160	1.5
EXC28CG900	90(Ω)±25(%)	17(Ω) max.	5	130	3.0

Impedance measurement equipment: HP4291A or Corresponding equipment Impedance measurement circuit: *1 _____ *2





Common Mode

Differential Mode

7. Category Temperature Range

-40 to +85 °C

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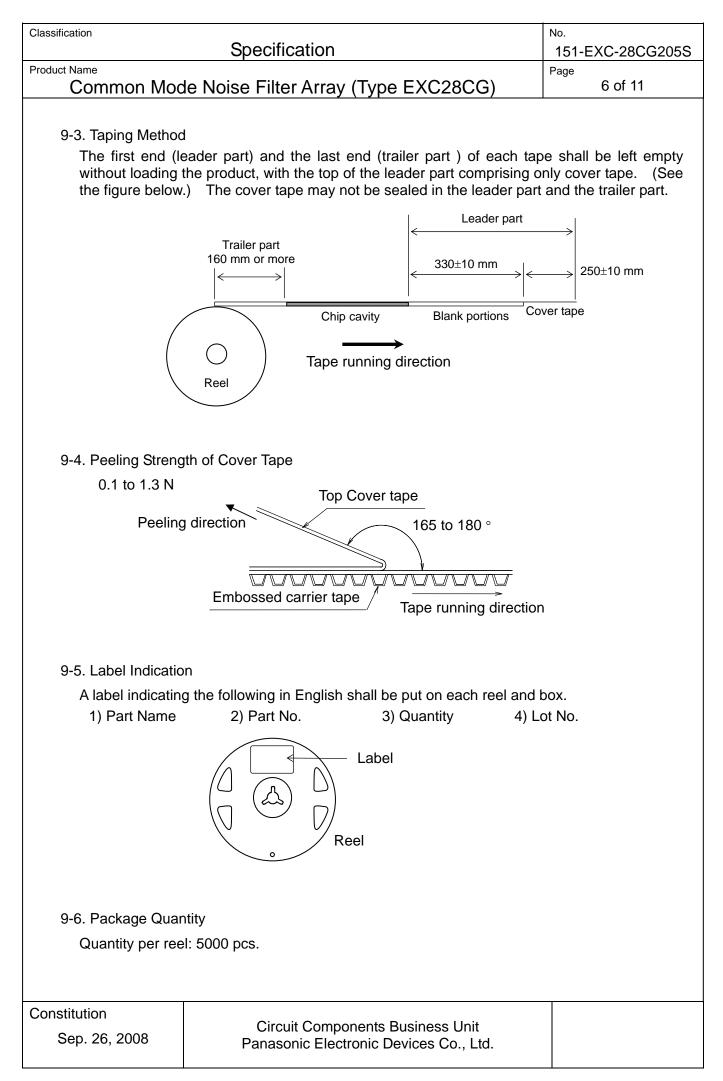
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Page 3 of 11 3 of 11 3 of 11 Specification 3 of 11 At least 75 % of each termination is covered with the new solder.		
At least 75 % of each termination is		
At least 75 % of each termination is		
At least 75 % of each termination is		
At least 75 % of each termination is		
Impedance variation: within ±30 % Remaining terminal: 70 % min.		
No abnormality of appearance Impedance variation: within ±30 %		
No abnormality of appearance Impedance variation: within ±30 %		
Jnit ., Ltd.		

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8-2. Environmental (Characteristics		
Item	Test Method	S	pecification
Heat Cycle	Conditions for 1 cycle Step 1: -40±3 °C, 30±3 min Step 2: +25±2 °C, 0 to 5 min Step 3: +85±3 °C, 30±3 min Step 4: +25±2 °C, 0 to 5 min Number of cycle: 5 cycle 1 to 2 hours of recovery under the standard condition after the test		ty of appearance ariation: within ±30 %
Load Life	Temperature: 85±2 °C Applied current: Rated current Duration: 500 h 1 to 2 hours of recovery under the standard condition after the test		ty of appearance ariation: within ±30 %
Humidity	Temperature: 40±2 °C Humidity: 90 to 95 %RH Duration: 500 h 1 to 2 hours of recovery under the standard condition after the test		ty of appearance ariation: within ±30 %
Humidity Load Life	Temperature: 40±2 °C Humidity: 90 to 95 %RH Applied current: Rated current Duration: 500 h 1 to 2 hours of recovery under the standard condition after the test		ty of appearance ariation: within ±30 %
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Product Name Common Mode Noise Filter Array (Type EXC28CG)				G)	Page	5 of 11
9. Packaging Method						
9-1. Embossed Ca	rrier Tape	Ta	ape running direc	ction → C-	C'	
		Eeeding hole			t1	
		hip pocket	P1		t2	_
A 1.20±0.15	B 2.25±0.15	W 8.0±0.2	F 3.5±0.1	E 1.75±	0.1	Unit: mm (inch) P1 4.0±0.1
(.05±.006)	(.09±.006)	(.32±.008)	(.14±.004)	(.07±.0		(.16±.004)
P2 2.0±0.1 (.08±.004)	P0 4.0±0.1 (.16±.004)	D0 1.5+0.1、-0 (.06+.004、-0)	t1 0.25±0.05 (.01±.002)	t2 0.9±0 (.04±.0	.15	
9-2. Reel						
A B		D 0.2 21.0±0.8	E 2.0±0.5	W 9.0±0.3	T 11.4±1	t
(7.1+0/12) (2.4+.0				.35±.01)	(.45±.0	
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Product Name	le Noise Filter Array (Type	FXC	28CG)	Page 7 of 11
			_000)	
10. Chip-mounting Co	nsiderations			
10-1. Recommende	ed Land Pattern (Only for Reflow S B	Solderi	ng)	
	F E F E F E ★ ★ ★ ★ ★ ★ ★	A	1.30 to 1.50	(0.052 to 0.060)
D		 B	1.75 (0.069)	(0.002 10 0.000)
		C	0.40 (0.016)	
A C		D		(0.018 to 0.022)
		Е	0.25 (0.010)	<u> </u>
D		F	0.25 (0.010)	
				Unit: mm (inch)
directly affect 2) The amount stresses whic Therefore, which and configure necessary to 10-2. Pattern Confi 1) After this pro mechanical s pattern config minimize stre 2) Board separa 10-3. Consideration	ducts have been mounted on the tresses in subsequent manufactu gurations and the position of SMD	ability o g. necess in turr e PC bo ring pr induct but by	of products to v ary to consider determines the oards, products ocesses. For cors should be o vusing the appr	withstand mechanical the appropriate size he amount of solder s can be subjected to this reason, planning carefully performed to opriate devices.
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10-4. Reflow Solde					
co tate Bur Rising	Preheating Risi tem	ng Main heating	Gradual cooling		soldering heat	
Solder	Rising temp. 1	Preheating	Pici	ng temp. 2	Tir Main heating	me (s)
SnPb eutectic	The normal to	140 to 160 °C		ting to 200 °C	235±10 °C	200 to 100 °C
(Sn-37Pb)	Preheating temp. 30 to 60 s	60 to 120 s	20 to 40 s		Peak	1 to 4 °C/s
SnAgCu lead-free	The normal to Preheating temp.	150 to 170 °C	Preheating to 210 °C		250 ⁺¹⁰ ∘C	210 to 100 °C
(Sn-3Ag-0.5Cu)	30 to 60 s	60 to 120 s	20 to 40 s		Peak	1 to 4 °C/s
 2) Please inqire 3) The temperadensity, etc. before actual 10-5. Repair with H 1) Allow enough with the tip ter 2) Never touch t 		a blast of ho cor less.	ng to th iture of t air or lder for	ne size of the termination similar met 3 seconds of the second seconds of the second se	in each typ hod. Use a	be of the board
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11. Notice for use		
•	shows the quality and performance of a unit compone and verify the product mounting it in your product.	nt. Before adoption, be
 Do not apply cu temperature. Always wear sta 	e use of this products. urrent in excess of the rated value because this product atic control bands to protect against ESD. ucts away from all magnets and magnetic object.	ct may be high
aerospace equipn crime preventive e serious damage to the following items 1) Ensure safety a	ation equipment (trains, cars, traffic signal equipment, nent, electric heating appliances, combustion and gas equipment, etc. in cases where it is forecast that the fa o the human life and others, use fail-safe design and e s. as the system by setting protective circuit and protective as the system by setting such redundant circuit as do	equipment, disaster and ailure of this product gives ensure safety by studying ve equipment.
 equipment (AV procommunication exception of environments into and such environments integration of the performance o	intended for use in general standard applications for g oducts, household electric appliances, office equipment quipment, etc.); hence, they do not take the use under o consideration. Accordingly, the use in the following mental conditions may affect the performance of the p ance, reliability, etc. thoroughly. Such as water, oil, chemical, and organic solvent duct is close to a heating component, and where an in de wire is arranged close to the product. ment with large static electricity and strong electromag r water-soluble detergent is used in cleaning free solde Pay particular attention to soluble flux) es outside the temperature range of -5 to 40 °C and h in places exposed to open-air, dusty atmosphere, and in places full of corrosive gases such as sea breeze, in such a place where the product is wetted due to de duct is sealed or coated with resin, etc. six months after our delivery (This item also applies to od specified in item 5) to 8) has been followed.)	ht, information and the following special special environments, roducts; prior to use, flammable such as a metic waves ering or in flux cleaning umidity range of 40 to d direct sunlight Cl_2 , H_2S , NH_3 , SO_2 , and ew condensation
	are any doubt about safety problems, please inform u y the product mounting it in your product before adopt	-
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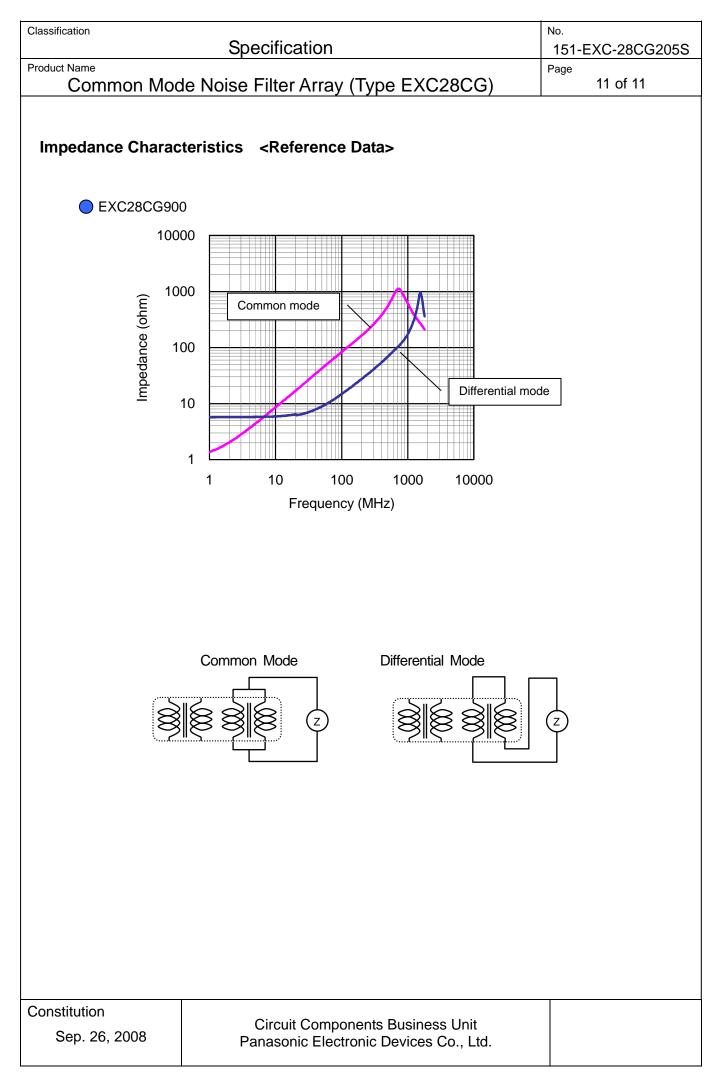
12. Regulation

- 1) This product has not been manufactured with any ozone depleting chemical controlled under the Montreal Protocol .
- 2) All materials used in this product are existing chemical substances recognized under " laws on examination of chemical substances and regulations of manufacturing and others."
- 3) All materials used in this products contain no brominated materials of PBB0s or PBBs as the flame-retardant .
- 4) Please contact us to obtain a notice as to whether this product has passed inspection under review criteria primarily based on Foreign Exchange and Foreign Trade Control law and appended table in the Export Control law.
- 5) This product complies with the RoHS Directive (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment (DIRECTIVE 2002/95/EC)).

13. Production Site

Panasonic Electronic Devices Japan Co., Ltd. (JAPAN)

Circuit Components Business Unit Panasonic Electronic Devices Co., Ltd.



单击下面可查看定价,库存,交付和生命周期等信息

>>Panasonic(松下)