To :	DIGINEI	CORPORATIO	 Issue No.	:	151EYG10		
			Date of Issue	:	14.Oct.201	0	
			 Classification	:	New	Changed	

SPECIFICATION SHEET

Product Description	:	PGS Graphite Sheet
Product Part Number	:	EYGA091207P

Customers Part Number	:	
Country of Origin	:	Japan
Applications	:	

Circuit Components Business Unit Panasonic Electronic Devices Co.,Ltd.
1037-2 Kamiosatsu, Chitose City, Hokkaido 066-8502 Japan
Engineering Section Prepared by : Phone : +81-123-23-8149 (Direct)



CLASSIFICATION SP	TION SPECIFICATION SHEET		
SUBJECT Part Number			PAGE 1 of 4
PGS Graphite S	heet I	EYGA091207P	DATE 14.Oct.2010
1.Scope This specification applies t	o Panasonic's PGS Grap	phite Sheet	
2.Explanation of Part Number Subject : PGS Gra Part Number : EYGA091	aphite Sheet		
<u>EYG</u> Product Code <u>Cod</u> S <u>N</u> A 3.Operating and storage Tem Operating Temperature Ra Storage Temperature Ran	Form (le Form Sheet Multi-layered Tape attached perature Range ange : -20 to 100 cels.	2 0 7 P nger Side Design Nu cm) Thickness Code Thickness 10 0.1mm 07 0.07mn 03 0.025m 02 0.017m	s n ım
4.Performance			
4-1.Appearance		— — — — — — — — — —	
Contents	Performance	Test Meth	
4-1-1 Appearance	There shall be no mech		iit sample
Appearance	scars,tears,hollows whi		
4-1-2	affect the performance		
Shape and Dimension	Shown in the figure Page 4 of 4		
4-2.Initial Performance			
Contents	Performance	Test Meth	
4-2-1	More than 5.0 cm ² /sec	Test piece;30mm×	
Thermal Diffusivity		Testing equipment	
(PGS)		Model PIT-IM ty	-
		(The Manufacturer	
		Equipment is S	NKU-RIKO)
4-3. Reliability Tests			
Contents	Performance	Test Meth	od
4-3-1	Shall meet the perform	ance Test temperature :	85±3 cels.
Damp Heat Test	prescribed clause 4-1 a	-	
		Test period : 1000	
Circuit Components Busir	ness I Init	APPROVAL	HECK DESIGN

Circuit Components Business Unit	APPROVAL	CHECK	DESIGN
Panasonic Electronic Devices Co.,Ltd.	Funaba	Kubo	Kawamura
1037-2 Kamiosatsu, Chitose City, Hokkaido, Japan	Fullaba	Rubu	Nawamura

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4-3-2 Temperature cycle	Shall meet the perf prescribed clause 4	I-1 and 4-2-1 temperature from 1 shown in the table b Regarding this cond perform 1000 cycles <u>step</u> temperatu 1 -20 cels 2 Room Tem 3 +105 ce		ture from 1 to the table be ng this condit 1000 cycles	o 4 for t elow. tions as continu e per p. 3 s. 1	the period s one cycle,	
4-3-3 High Temperature Resistance	Shall meet the perf prescribed clause 4		Test temperature : 100 cels. Test period : 1000 hours				
4-3-4 Low Temperature Resistance	Shall meet the perf prescribed clause		Test temperature : -20 cels. Test period : 1000 hours				

5. Packaging

20 sheets of PGS Graphite Sheets shall be put in a plastic bag and the plastic bag shall be sealed. Maximum 20 plastic bags shall be put in an inner carton and a tag on goods specifying Product Name, Part No., Lot No, Quantity shall be put on the top face of the inner carton.

(Max 400 pcs. per inner carton)

Maximum 5 inner cartons shall be put in an outer packaging box and a label specifying Product Name, Part No., Lot No, Quantity (Max 2,000 pcs.), County of Origin in English shall be put on the side of the outer packaging box.

- 6. Handling Precautions
- 6.1 <u>A</u>Safety Precaution
 - 6.1.1 The PGS shall be used within the specified operating temperature range.
 - 6.1.2 The PGS is soft, do not rub or touch it with rough materials to avoid scratching it.
 - 6.1.3 Lines or folds in the PGS may affect thermal conductivity.
 - 6.1.4 The PGS shall not be used with acid.
 - The PGS shall not be used in contact with a soldering iron at 400 or more.
 - 6.1.5 The PGS shall not be exposed to salt water or direct sunlight during use. The PGS shall not be used in corrosive gases (hydrogen sulfide, sulfurous acid, chlorine, ammonia etc.)
 - 6.1.6 Our PGS has been developed for general industry application. Prior to using the PGS for special applications such as medical, aerospace and aircraft work please contact our engineering staff or the factory.
 - 6.1.7 Never touch a PGS during use because it may be extremely hot.

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- 6.2 Application notes
 - 6.2.1 Use protective materials when handling and/or applying the PGS, do not use items with sharp edges as they might tear or puncture the PGS.
 - 6.2.2 The PGS dose not work properly if overheated.
 - 6.2.3 Thermal conductivity is dependent on the way it is used.
 - Test the adaptability of PGS to your application before use.
 - 6.2.4 The PGS has conductivity. If required, the PGS should be provided insulation.
 - 6.2.5 Punching Graphite sheets sends graphite powder; therefore, your check whether or not the graphite powder fall harms devices is necessary.
 - 6.2.6 The PGS shall not be stored under severe conditions of salt water, direct sunlight or corrosive gases (hydrogen sulfide, sulfurous acid, chlorine, ammonia etc.). The PGS shall not be stored near acid.
- 7.Substance of this product
 - 7-1 This product not been manufactured with any ozone depleting chemical controlled under the Montreal Protocol.
 - 7-2 This product comply with RoHS(Restriction of the use of certain Hazardous Substance in electrical and electronic equipment) Directive(2002/95/EC).
 - 7-3 All the materials used in this part are registered material under the Law Concerning the Examination and Regulation of Manufacture, etc. of Chemical Substance.

