

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 60003323

Blatt *Page*
0001

Ihr Zeichen *Client Reference*

Unser Zeichen *Our Reference*
0001-- 02850007 001

Ausstellungsdatum
05.09.2002

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*
Syfer Technology LTD.
Old Stoke Road
Norwich, NR 14 8SQ
Great Britain

Fertigungsstätte *Manufacturing Plant*
Syfer Technology LTD.
Old Stoke Road
Norwich, NR 14 8SQ
Great Britain

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 132400:1994+A2+A3+A4



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Kondensator /Fixed Monolithic Ceramic Chip Capacitor

Bezeichnung: 1808JA25xxxxxXxSP
/model designation
Nennspannung: AC 250 V
/rated voltage
Klassifizierung: Y3 ; X2
/class-subclass
Kapazität: 150 pF - 1 nF
/rated capacity
Kategorie: 55/125/56/C
/categorie

8

xxxxxXx - see attachment 1

/special remark: Tested acc. to table III safety tests of IEC 60384-14:1991+A2+A3+A4. Only for use in equipment in the scope of EN 60950. Compliance with impulse test and §2.9.3 of EN 60950-1:2001 has been demonstrated.

8

ANLAGE (Appendix): attachment 1

*Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.
This certificate is based on our Testing and Certification Regulation. The product fulfills above mentioned requirements, the production is subject to surveillance.*

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln
Tel.: (+49/221)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Constructional Data Form for Capacitor

Licenseholder : Syfer Technology Ltd
Old Stoke Road, Arminghall Norwich, Norfolk NR14 8SQ

Factory : Syfer Technology Ltd
(full address) Old Stoke Road, Arminghall Norwich, Norfolk NR14 8SQ

Type or Model Number : SP
Kind of device: Chip Capacitor

Rated voltage (U_R) AC 250V
Frequency 50/60Hz
Capacitor Class and sub class X2, Y3
Rated Capacitance (C_R) and Tolerance 150pF to 1.0nF See page 2 for details
Mounting PCB
Termination type Termination bands
Dimensions See page 2

Component parts:

Component	Manufacturer	Material name	Flame class	PTI
Dielectric Material	Ferro Electronic Materials	X7R262L	N/A	175/200
Dielectric Thickness	>70uM		N/A	
Number of individual layers	3 To 50 depending on capacitance value		N/A	
Electrode Material	DMC2	Silver / Palladium Electrode Paste	N/A	175/200
Electrode	Screen Printing		N/A	
Kind of generating Capacitor Element arrangement	Sectional or Series construction		N/A	
Impregnant	N/A		N/A	175/200
Encapsulation material	N/A		N/A	175/200

Köln, den

SYFER, NORWICH
(Place)

25/7/2002
(Date)

TÜV Rheinland
Product Safety GmbH

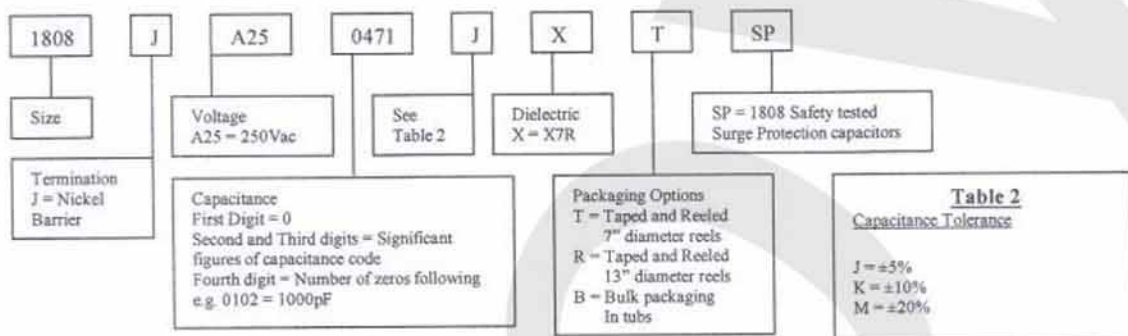
519/02




(Stamp and Signature of Applicant)

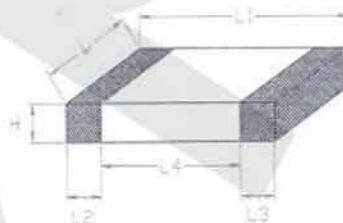
Constructional Data Form for Capacitor

Ordering Information



Mechanical Specification

Syfer Size	1808
Length (L1) mm	4.50 ± 0.35
Width (W) mm	2.00 ± 0.30
Thickness (H) mm	2.00 Max.
Termination Bands mm(L2, L3)	0.25 – 0.80mm
Creepage Distance (L4)	2.50 Min.
Termination Material	Nickel Barrier
Solderability	IEC 68-2-20



Marking

Three position marking used. The first Character 'S' to denote the manufacturer (Syfer), followed by a two character code to show the product type 'SP' Surge Protection.



Köln, den

SYFER, NERWICH
(Place)

25/7/2002
(Date)

TÜV Rheinland
Product Safety GmbH

519602

(Stamp and Signature of Applicant)

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0002

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0001-- 02850007 002

06.02.2004

Genehmigungsinhaber *License Holder*

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Old Stoke Road
Norwich, NR 14 8SQ
Great Britain

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Syfer Technology LTD.
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Zertifiziertes Produkt (Geräteidentifikation)

Certified Product (Product Identification)

Lizenzentgelte - Einheit

License Fee - Unit

Capacitor Fixed Monolithic Ceramic Chip Capacitor

Model Designation: 1808JA25xxxxXxSP
(xxxxxXx see appendix)

3

Rated voltage: AC 250 V

Class-Subclass: Y3, X2

Rated Capacitance: 150 pF - 2.2 nF

Category: 55/125/56/C

Special Remark: Tested acc. to table II safety tests of EN 132400:1994+A2+A3+A4. Only for use in equipment in the scope of EN 60950. Compliance with impulse test and §2.9.3 of EN 60950-1:2001 has been demonstrated.

3

ANLAGE (Appendix): 1

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Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety



Zertifizierungsstelle

F. Möcking
Dipl.-Ing. F. Möcking