

Zertifikat

Certificate



Zertifikat Nr. Certificate No.
R 60001955

Blatt Page
0001

Ihr Zeichen Client Reference

Unser Zeichen Our Reference
0001-- 02194041 001

Ausstellungsdatum
08.03.2002

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



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Kondensator Fixed Monolithic Ceramic Chip Capacitor

Fixed Monolithic Ceramic Chip Capacitor

Model Designation: xxxxxJA25xxxxxCXSP (see appendix 1)
Rated Voltage: AC 250 V ; 50 / 60 Hz
Class/Subclass: X1 ; Y2
Rated Capacitance: 4,7 pF - 1 nF
Climatic and
Flammability Category: 55/125/56/C

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Special Remark: Tested according to table II Safety Tests
of IEC 60384-14:1993+A1

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ANLAGE (Appendix): 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: Althoff@de.tuv.com
Fax:(+49/221)8 06 - 39 35 http://www.tuv.com/safety

Zertifizierungsstelle



Dipl.-Ing. F. Schuh

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 (Type A)
Kind of device: Chip Capacitor

Rated voltage (U_R) AC 250V
Frequency 50/60Hz
Capacitor Class and sub class X1, Y2
Rated Capacitance (C_R) and Tolerance 1nF to 4.7pF 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	COG150L, COG900L	N/A	175/200
Dielectric Thickness	>35uM			
Number of individual layers	3 to 70 depending on capacitance value			
Electrode Material	DMC2	Silver / Palladium Electrode Paste		175/200
Kind of generating Electrode	Screen Printing			
Capacitor Element arrangement	Sectional or Series construction			
Impregnant	N/A			175/200
Encapsulation material	N/A			175/200

Köln, den 20/2/2
Memo Bher
TÜV Rheinland
Product Safety GmbH

Norwich
(Place)

14.01.02
(Date)

Clive Younes

(Stamp and Signature of Applicant)

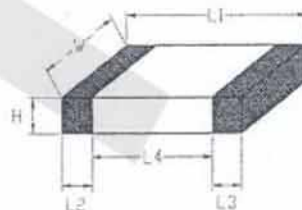
Constructional Data Form for Capacitor

Ordering Information

2215	J	A25	0471	J	C	T	SP
Size		Voltage A25 = 250Vac	See Table 2	Dielectric C = COG			SP = 221/2215 Safety tested Surge Protection capacitors
Termination J = Nickel Barrier	<p>Capacitance First Digit = 0 Second and Third digits = Significant figures of capacitance code Fourth digit = Number of zeros following e.g. 0102 = 1000pF For values below 10pF a P is inserted for decimal point e.g. 4P70 = 4.7pF</p>			<p>Packaging Options T = Taped and Reeled 7" diameter reels R = Taped and Reeled 13" diameter reels B = Bulk packaging In tubs</p>		<p>Table 2 Capacitance Tolerance Nominal Cap value 4.7pF - 8.2pF C = ±0.25pF D = ±0.50pF F = ±1.0pF Nominal Cap value 10pF - 1000pF F = ± 1% G = ± 2% J = ± 5% K = ± 10%</p>	

Mechanical Specification

Syfer Size	2211	2215
Length (L1) mm	5.70 ± 0.40	5.70 ± 0.40
Width (W) mm	2.79 ± 0.30	3.81 ± 0.35
Thickness (H) mm	2.54 Max.	2.54 Max.
Termination Bands mm(L2, L3)	0.25 - 0.80mm	0.25 - 0.80mm
Creepage Distance (L4)	4.00 Min.	4.00 Min.
Termination Material	Nickel Barrier	Nickel Barrier
Solderability	IEC 68-2-20	IEC 68-2-20



Marking

Marking code to consist of Syfer logo (S), the type designation (A), and a capacitance code in accordance with the table below.

Köln, den 20/2/2
Michael O'Brien
TÜV Rheinland
Product Safety GmbH

Norwich
(Place)

14.01.02
(Date)

Clive Youngs

(Stamp and Signature of Applicant)

Constructional Data Form for Capacitor

Marking (cont)

Nominal Cap.	Print Code	Syfer cap code	Nominal Cap.	Print Code	Syfer cap code
4.7pF	4p7	4p70	82pF	82p	0820
5.6pF	5p6	5p60	100pF	100p	0101
6.8pF	6p8	6p80	120pF	120p	0121
8.2pF	8p2	8p20	150pF	150p	0151
10pF	10p	0100	180pF	180p	0181
12pF	12p	0120	220pF	220p	0221
15pF	15p	0150	270pF	270p	0271
18pF	18p	0180	330pF	330p	0331
22pF	22p	0220	390pF	390p	0391
27pF	27p	0270	470pF	470p	0471
33pF	33p	0330	560pF	560p	0561
39pF	39p	0390	680pF	680p	0681
47pF	47p	0470	820pF	820p	0821
56pF	56p	0560	1nF	1n0	0102
68pF	68p	0680			

Köln, den 20/2/2
Helmö'Brien
TÜV Rheinland
Product Safety GmbH

Notwich
(Place)

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(Stamp and Signature of Applicant)