

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
R 50101887

Blatt *Page*
0001

Ihr Zeichen *Client Reference*
12043848/AF

Unser Zeichen *Our Reference*
ZTW2-STF- 11008915 001

Ausstellungsdatum
05.03.2007

Date of Issue
(day/mo/yr)

Genehmigungsinhaber *License Holder*

Holy Stone Enterprise Co., Ltd.
1F, No. 62, Sec. 2
Huang Shan Road, Neihu Dist.
Taipei 114
Taiwan, R.O.C.

Fertigungsstätte *Manufacturing Plant*

Holy Stone Enterprise Co., Ltd.
No. 56, Lane 90, Kung Wu Road
Wu Lin Village
Lung Tan Hsiang, Taoyuan 325
Taiwan, R.O.C.

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
IEC 60384-14:2005
EN 60384-14:2005

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Funk-Entstörkondensator (Ceramic Capacitor for Mains Supply)

Bezeichnung : SDCN2R0C5027L2 6
(Type Designation)
Bemessungsspannung : AC 400V/AC 250V
(Rated Voltage)
Kapazitätsklasse und : X1/Y2
-unterklasse (Capacitor class and sub-class)
Dielektrikum Material : NPO
(Dielectric Material)
Nennwerte der Kapazität : 2pF
(Rated capacitance)
Klimakategorie : 25/125/21
(Climatic Category)
Kategorie der passiven Entflammbarkeit: A
(Category of Passive Flammability)



ANLAGE (Appendix): 1.0

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.

Zertifizierungsstelle

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

Dipl.-Ing. B. Scheirer

Zertifikat

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Zertifikat Nr. *Certificate No.*
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Wie Blatt (As Page) 01

Ergänzung (Addition)

Bezeichnung (Type Designation) : SDCX1X2X3X4X5X6X7X8

X1 steht für (stands for)	: N, S, P, E oder (or) Y	1
X2 steht für (stands for)	: siehe Anlage (see appendix)	1
X3 steht für (stands for)	: C, D, F, J, K oder (or) M	1
X4 steht für (stands for)	: 10 oder (or) 50	1
X5 steht für (stands for)	: 2, 3 oder (or) 4	1
X6 steht für (stands for)	: 5, 6, 7, A oder (or) B	1
X7 steht für (stands for)	: H, C, S, M oder (or) L	1
X8 steht für (stands for)	: 1, 2, 3, 4, 5, 6, 7, 8, 9, A, B oder (or) C	1



Fortsetzung auf Blatt (Continued on Page) 03

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ANLAGE (Appendix): 1.0

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0003

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12043848/AF	ZTW2-STF- 11008915 001	05.03.2007	

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Funk-Entstörkondensator (Ceramic Capacitor for Mains Supply)

Wie Blatt (As Page) 01

Fortsetzung (Continuation)

Bemessungsspannung
(Rated Voltage) : a) AC 400V/ AC 250V
b) AC 440V/ AC 250V
c) AC 440V/ AC 400V

Kondensatorklasse/-unterklasse:
(Capacitor Class/Sub-class) a) X1/Y2
b, C) X1/Y1

Dielektrikum Material
(Dielectric Material) : NPO, SL, Y5P, Y5U oder (or)
Y5V

Kapazitätsnennwerte
(Rated Capacitance) : siehe Anlage
(see appendix)

ANLAGE (Appendix): 1.0

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Dipl.-Ing. B. Scheirer



Report No. 11008915 001 License No. R 50101887 Appendix No. 1.0
 Total pages: 6 Constructional data form 26-Feb-07

Licenseholder : **Holy Stone Enterprise. Co., Ltd.**
 (full address) 1F, No 62, Sec. 2, Huang Shan Road, Neihu Dist., Taipei 114, Taiwan, R.O.C.
 Factory : **Holy Stone Enterprise. Co., Ltd.**
 (full address) No. 56, Lane 90, Kung Wu Road, Wu Lin Village, Lung Tan Hsiang, Taoyuan 325, Taiwan, R.O.C.
 (add factories) None
 Type or Model Number : SDC series (Please see pages 5 and 6 for details)
 Kind of device: Ceramic capacitors for mains supply

Rated voltage (U_R): X1: 400V AC / Y2: 250V AC (where X4 = 50 and X5 = 2)
 X1: 440V AC / Y1: 250V AC (where X4 = 10 and X5 = 3)
 X1: 440V AC / Y1: 400V AC (where X4 = 10 and X5 = 4)
 Frequency: 50Hz
 Class and sub class : X1/Y1 (X4 = 10), X1/Y2 (X4 = 50)
 Dielectric material: NPO, SL, Y5P, Y5U, Y5V
 Rated Capacitance (C_R):
 SDCN (NPO) X4 (50) X5 (2) : 2, 3, 5, 8, 10 pF
 SDCS (SL) X4 (50) X5 (2) : 8, 10, 15, 22, 33, 47, 68 pF
 SDCP (Y5P) X4 (50) X5 (2) : 8, 10, 15, 22, 33, 39, 47, 56, 68, 100, 120, 150, 180, 220, 270, 330, 390, 470, 560, 680, 1000 pF
 SDCE (Y5U) X4 (50) X5 (2) : 1000, 1500, 1800, 2000, 2200, 3300, 3900, 4700 pF
 SDCY (Y5V) X4 (50) X5 (2) : 1000, 1500, 2200, 3300, 3900, 4700, 6800, 8200, 10'000 pF
 SDCN (NPO) X4 (10) X5 (3 or 4) : 2, 3, 5 pF
 SDCS (SL) X4 (10) X5 (3 or 4) : 8, 10, 15, 22, 33, 39, 47, 68 pF
 SDCP (Y5P) X4 (10) X5 (3 or 4) : 100, 150, 220, 330, 390, 470, 680, 1000 pF
 SDCE (Y5U) X4 (10) X5 (3 or 4) : 1000, 1500, 1800, 2000, 2200, 3300, 3900, 4700 pF
 Tolerance: C (± 0.25 pF), D (± 0.5 pF), F (± 1.0 pF): 2 – 10 pF (NPO, SL)
 J (± 5 %): 2 – 1000 pF (NPO, SL, Y5P)
 K (± 10 %): 10 – 4700 pF (NPO, SL, Y5P, Y5U, Y5V)
 M (± 20 %): 15 – 10'000 pF (NPO, SL, Y5P, Y5U, Y5V)
 Rated resistance (R_R) N.A.
 Rated temperature for RC unit N.A.

TUV Rheinland Group

Holy Stone Enterprise. Co., Ltd.

(name of authorized person)

Mar. 5, 2007 P. Rindahl
 Date Name Signature

Arthur Fang
 Date Name Stamp & Signature of licenseeholder



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Lower category temperature -25°C
 Upper category temperature +125°C
 Climatic Category 25/125/21
 Passive Flammability A
 Mounting Solder into PCB
 Termination type Lead type

Element size table.

Capacitor type.	Capacitance range	Element Diameter Ø mm (max)
SDCN (NPO) X4 (50) X5 (2)	2, 3, 5 pF	11
	8 pF	12
	10 pF	13
SDCS (SL) X4 (50) X5 (2)	8, 10, 15, 22 pF	11
	33, 47 pF	12
	68 pF	13
SDCP (Y5P) X4 (50) X5 (2)	8, 10, 15, 22, 33, 39, 47, 56, 68, 100, 120, 150, 180, 220, 270, 330, 390, 470 pF	11
	560, 680 pF	12
	1000 pF	13
SDCE (Y5U) X4 (50) X5 (2)	1000 pF	11
	1500 pF	13
	1800 pF	13.5
	2000, 2200 pF	14
	3300 pF	16
	3900 pF	17
	4700 pF	18
SDCY (Y5V) X4 (50) X5 (2)	1000, 1500 pF	11
	2200 pF	12
	3300 pF	13
	4700 pF	15
	6800 pF	17
	8200 pF	19
	10'000 pF	20

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Holy Stone Enterprise, Co., Ltd.

Mar. 5, 2007 *P. Prindahl*
 Date Name Signature

Arthur Fang 
 Date Name Stamp & Signature of licenseeholder

(name of authorized person)

Report No. 11008915 001 License No. R 50101887 Appendix No. 1.0

Element size table. (continued)

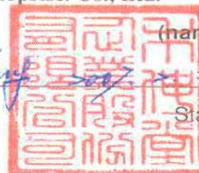
Capacitor type.	Capacitance range	Element Diameter Ø mm (max)
SDCN (NPO) X4 (10) X5 (3)	2, 3, 5 pF	11
SDCS (SL) X4 (10) X5 (3)	8, 10, 15 pF	11
	22, 33, 39 pF	12
	47 pF	13
	68 pF	15
SDCP (Y5P) X4 (10) X5 (3)	100, 150, 220 pF	11
	330, 390, 470 pF	12
	680 pF	13
	1000 pF	15
SDCE (Y5U) X4 (10) X5 (3)	1000 pF	12
	1500 pF	13
	1800 pF	14
	2000, 2200 pF	15
	3300 pF	16.5
	3900 pF	17.5
	4700 pF	18.5
SDCN (NPO) X4 (10) X5 (4)	2, 3, 5 pF	12
SDCS (SL) X4 (10) X5 (4)	8, 10, 15, 22, 33, 39 pF	12
	47 pF	13
	68 pF	14
SDCP (Y5P) X4 (10) X5 (4)	100, 150, 220, 330, 390, 470 pF	12
	680 pF	13
	1000 pF	15
SDCE (Y5U) X4 (10) X5 (4)	1000 pF	12
	1500 pF	13
	1800 pF	14
	2000, 2200 pF	15
	3300 pF	16.5
	3900 pF	17.5
	4700 pF	18.5

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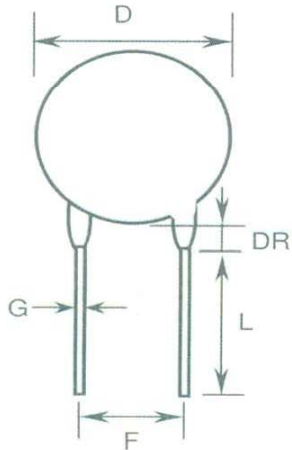
Mar. 5, 2007 G. Pimodall
Date Name Signature

Arthur Fayf (name of authorized person)
Date Name Stamp & Signature of licenseholder

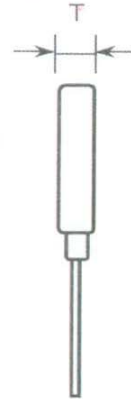
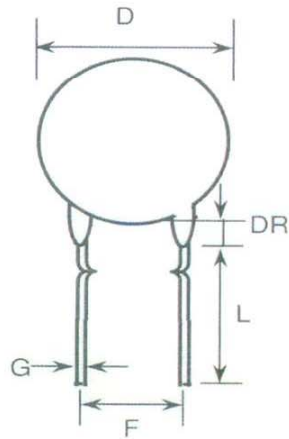


Shapes and Dimensions

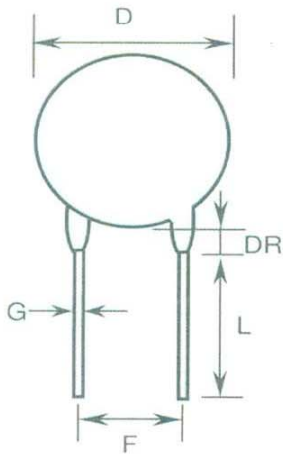
S Type :



K Type :



D Type :



Code	Dimension		
	S Type	K Type	D Type
D	ϕ 20.0 mm max.		
F	12.5 mm max.		
G	0.8 ± 0.1 mm max.		
T	8 mm max.		
DR	4.0 mm max.	5.0 mm max.	4.0 mm max.

TUV Rheinland Group

Holy Stone Enterprise. Co., Ltd.

Mar. 5, 2007 9. Prindall
Date Name Signature

Arthur...
Date Name Stamp & Signature of licenseholder (name of authorized person)



Report No. 11008915 001 License No. R 50101887 Appendix No. 1.0

List of materials:

object/part No.	manufacturer/trademark	type/model	technical data
Ceramic Powder	Ferro Electronic Material NPO	NPO100w NPO20w NPO45w	MgCo3 + Tio2 + BaCo3
	SL	SL100w SL250w SL300w	SrTio3 + CaTio3 + MgTio3
	Y5P	Y5P202w Y5P402w	BaTio3 + Bi2o3
	Y5U	Y5U802w Y5U952w	BaTio3 + CaTio3
	Y5V	Y5V163w	BaTio3 + CaTio3
Internal Electrode	Any acceptable one	-	Ag / Au
Epoxy	Any acceptable one	-	Silicone dioxide, epoxy resin
Lead wire	Any acceptable one	-	Copper / steel

Part numbers are designated as: $\frac{SDC}{X} \frac{N}{X1} \frac{2R0}{X2} \frac{C}{X3} \frac{50}{X4} \frac{2}{X5} \frac{7}{X6} \frac{L}{X7} \frac{2}{X8}$

X : Product code
SDC = Safety Disc Ceramic Capacitor


X1 : Dielectric code (dielectric material)
X1 can be N = NPO
S = SL
P = Y5P
E = Y5U
Y = Y5V (when X4 = 50 and X5 = 2 only)

X2 : Capacitance value according EIA code (see below)
Capacitance expressed in pF.
First two digits are significant figures.
Third digit denotes number of zeros.
Use R for decimal point for values less than 10 pF
E.g. 5R0: 5 pF
100: 100 pF
151: 150 pF

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Holy Stone Enterprise, Co., Ltd.

Mar. 5, 2007 *9. Riemdahl*
Date Name Signature

Arthur Fong
Date Name Stamp & Signature of licenseholder
 (name of authorized person)

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X3 : Tolerance code

X3 can be C = ± 0.25 pF
 D = ± 0.5 pF
 F = ± 1.0 pF
 J = ± 5 %
 K = ± 10 %
 M = ± 20 %

X4 : Capacitor class

X4 can be 10 = X1 / Y1
 50 = X1 / Y2

X5 : Rated voltage

X5 can be 2 = X cap.: 400V a.c., Y cap.: 250V a.c.
 3 = X cap.: 440V a.c., Y cap.: 250V a.c.
 4 = X cap.: 440V a.c., Y cap.: 400V a.c.

X6 : Lead space

X6 can be 5 = 5.00 mm
 6 = 6.35 mm
 7 = 7.50 mm
 A = 10.0 mm
 B = 12.5 mm

X7 : Lead leangth

X7 can be H = 3.1 mm
 C = 3.5 mm
 S = 5.0 mm
 M = 10.0 mm
 L = 25.0 mm (min)


X8 : Lead shape style

X8 can be 1 = S type $\varnothing = 0.50$ mm
 2 = S type $\varnothing = 0.60$ mm
 3 = S type $\varnothing = 0.65$ mm
 4 = S type $\varnothing = 0.80$ mm
 5 = K type $\varnothing = 0.50$ mm
 6 = K type $\varnothing = 0.60$ mm
 7 = K type $\varnothing = 0.65$ mm
 8 = K type $\varnothing = 0.80$ mm
 9 = D type $\varnothing = 0.50$ mm
 A = D type $\varnothing = 0.60$ mm
 B = D type $\varnothing = 0.65$ mm
 C = D type $\varnothing = 0.80$ mm

TUV Rheinland Group

Holy Stone Enterprise. Co., Ltd.

Mar. 5, 2007 *Y. Rindahl*
 Date Name Signature

Arthur Fang *2007.3.5*
 (name of authorized person)
 Date Name Stamp & Signature of licenseholder