

Y2 AC Ceramic Capacitor 250VAC

Serie: I22003

Mat. Code	B	Material: B= Y5P
Voltage Code	251	Voltage: 251= 250VAC
Range Code	151	Range: 151=150pf

											nic Capacitor VAC
										Serie No.:	122003
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	1 from 13	Customer.	
www.edcon-co	www.edcon-components.com email: info@edcon-components.com										
				C							

Copyright by EDCON-COMPONENTS



Temperature Range:

Code

101

102

222

103

Capacitance Tolerance:

Temperature Characteristics

Capacitance Change of Temperature

Coeffizient

Technical Specifications

Y5P = +10%

K= ± 10%

 $M = \pm 20\%$

Capacitance (pf)

Nominal Capacitance Code (Example)

100

1000

2200

10000 Nominal capacitance shall consist of three numbers in the unit of picofard(pf). The frist and

the second numbers mean the signifibant figures and the third number shall presendt the number of zeros flowing the significant figures.

Y5P and Y5U and Y5V

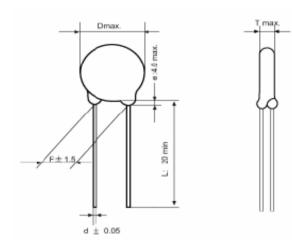
Y5U = ±20% ~ -55%

 $Y5V = \pm 30\% \sim -80\%$. -25°C ~ +85°C





Lead Style Informations



Lead Code Style (A) (mm)

Pitch Code	А	В	С	D	E				
F	2,5	5,0	7,5	10	12,5				
L	only 20mm long lead								
d		0,5 or	0,6 or (),8mm					
е		ma	ax. 4,0n	nm					

										Y2 AC Ceramic Capaci 250VAC			
										Part No.:	122003		
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:			
APPD:	Schumi			FINISH	Jamy		Shee	t No.	2 from 13	Cusiomer.			
www.edcon-components.com email: info@edcon-components.com													

Copyright by EDCON-COMPONENTS

REACH F **RoHS** Lead Free



Lead Style Informations

Lead Code Style (B) Unit (mm)

С

7,5

5,0mm or on customer request

0,5 or 0,6 or 0,8mm

max. 4,0mm

D

10

В

5,0

А 2,5 L:5±1

Ε

12,5

Pitch Code

F

А

L

d

Lead Style Informations

Lead Code Style (C) Unit (mm)

С

7,5

5,0

5,0mm or on customer request

0,5 or 0,6 or 0,8mm

D

10

6.5

Ε

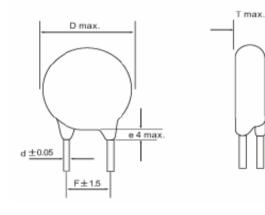
12,5

6.5

В

5,0

5.0



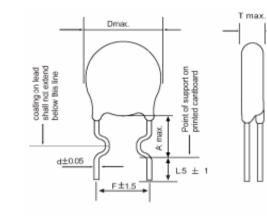
Pitch Code

F

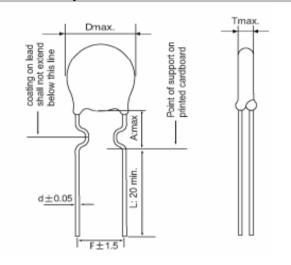
L

d

е



Lead Style Informations



Lead Code Style (D) Unit (mm)

Pitch Code		В	С	D	E				
F		5,0	7,5	10	12,5				
A		5,0	5,0	6,5	6,5				
L	20mm min.								
d		0,5 or	0,6 or (),8mm					

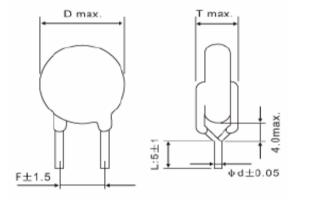
											amic Capacitor OVAC
										Part No.:	122003
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	3 from 13	Customer.	
www.edcon-components.com email: info@edcon-components.com											

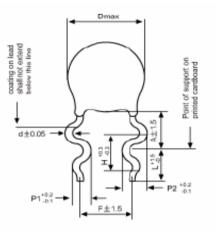
Copyright by EDCON-COMPONENTS



Lead Style Informations

Lead Style Informations





Lead Code Style (M) Unit (mm)

Lead Code Style (H) Unit (mm)

Pitch Code		В	С	D	E					
F		5,0	7,5	10	12,5					
L	5,0mm or on customer request									
d		0,5 or 0,6 or 0,8mm								

Pitch Code		В	С	D	Е			
F		5,0	7,5	10	12,5			
Н		2,6	2,6	3,3	3,3			
P1		1,3	1,25	1,65	1,65			
P2		1,65	1,65	1,95	1,95			
A	D<8	3: 6,0±	1,5, D>	•8: 7,0±	: 1,5			
L	3,0 ~ 30mm							
d		0,5 or	0,6 or (),8mm				

Y2 AC Ceramic Capacitor

250VAC

t	No.:	122003

										Part No.:	122003
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customor	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	4 from 13	Customer:	

www.edcon-components.com

Copyright by EDCON-COMPONENTS

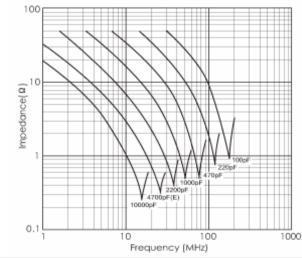


Specification and test method

Operating Temperature range -25°C ~ +105°C But temperature range is -25% ~ +85°C at safety standard specification.

Test and measurement shall be made at the standard condition. (Temperature 15 ~ 35°C relative humidity 45 ~ 75% and athmospheric pressure 860~1060hpa). Unless otherwise specified herein it doubt accurated on the value of measurement, and remesuarement was requested by customer capacitor shall be measuremed at the reference condition (Temperature 20 ±2°C, relative humidity 60~70% and atmospheric pressure 860~1060hpa). unless otherwise specified herein.

Impedance vs. Frequency Characteristics



Leakage Current Characteristics

REACH

AC voltage : 60Hz Temperature : 25°C

HINF100

AC voltage [V(r.m.s.)]

HMF472MODO

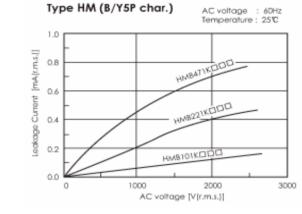
HMF222MDDD HMF102MDDD

MODO

2000

3000

RoHS Lead Free

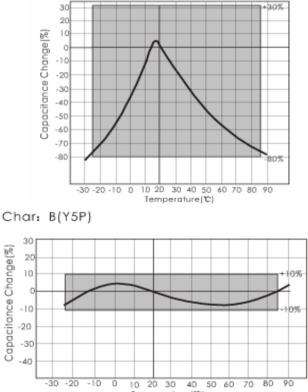


Capacitance Temperature Characteristics

COMPONEN

A MEMBER OF EDCON-GROUP

Char:F (Y5V)



Temperature (°C) Y2 AC Ceramic Capacitor 250VAC

	F	requency (MHz)								Part No.:	122003
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	5 from 13	Cusiomer.	

Type HM (F/Y5V char.)

6.D

4.0

3.0 ā

0.0

Ď

[mA(r.m.s.)] 5.0

8 2.0

www.edcon-components.com

Copyright by EDCON-COMPONENTS

1000



APPD:

Schumi

www.edcon-components.com

REACH	\checkmark	Ø
	RoHS	Lead Fre

٧ſ



6 from 13

Sheet No.

	ltem	Specification		Testing M	ethod			ltem		Specif	ication	Tes	ting Method
Appo	erance and	No marked defect on appe	erance	he capacitor shall be in eyes for visible evide					Char	Canacit	ance Change		nce measurement shall a step specified in table
	nensions	from and dimension are	within [Dimensions shall be me					В		ithin $\pm 10\%$	Step	Temperature (°C
		specified range.		calipers	S.		Temperature				n + 20% -55%	1	.+ 20 ±2
		-	TI	he capacitor shall be in	spected by nacked			aracteristics	F	withi	n + 30% -80%	2	25 ±2
Ma	larking	To be easily legible.		eyes								3	.+ 20 ±2
Cap	pacitance	Within spefied toleran	се								characteristics -25 to +85°C	4	.+ 85 ±2
	ssipation Factor (D,F)	Char. Specification	~	The capacitance, dissipation shall be measured at $25 \pm 2^{\circ}$ C with 1 ± 0.1 KHz and					gua	ance is	-23 10 +03 0	5	.+ 20 ±2
Dissipatio [,]	on Factor (D,F)	B, E= D,F= ≤ 2,5%	6	AC1 \pm 0,1V	,								
	F= D,F= ≤ 5,0%					Apperance	I	No marke	ed defect.	As in figure , discharge in made 50 tim 5sec intervalls from the capacitor (Cd)			
	tion Resistance (R) 10000M Ω min.			with DC 500 ± 50V within 60 ±5sec. Of charging. The capacitor shall not be damage when				I.R.	1000M Ω min.		Ω min.		oltage of specified
E	Between Lead wires	No failure		C 2600V (r.m.s.) are ap lead wires fo		Discharge test (1)					VsT (
Dielectric Strength B	Strength		cor rigl the 3-4	st, the terminals of the cap nnected together. Then as ht, a metal foil shall be clo b body of the capacitor to t fmm from each terminal. T capacitor shall be insetedinto a container filed with ballsof about mm diameter. Finally AC		Discharç	Dielectric Strength		per It	em 6.	Ct: Capacitor un Cd: 0,001μF S: high voltage s R1: 1000Ω R2: 1000MΩ R3: Surge resist Vs: DC 10KV	switch	
			Al c	C2600(r.m.s.) is applied for 60s between the apacitor lead wires and metal balls.	Metal bdls								eramic Capaci 250VAC 122003
DRW	V: Jas	on CHKD	Wilso	n MATL:	Wilson	TOLERA	NCE	Mason	DA	TF	01.11.2010	Customer:	

FINISH

email: info@edcon-compor	nents.com
--------------------------	-----------

Copyright by EDCON-COMPONENTS

Jamy







11 1		 								ER OF EDCON-GROUP
ltem		Specification		Testing Me	thod		ltem	Spec	ification	Testing Method
			placed capacit	e layer of cheese cl around the body of or. Each sample is harges from a dum	the test to be subjected to	Disc	charge Trest II		th around cpacitors glow or flame.	Capacitance value and D.F. are follows. Cap. Value Cd to 0,005μF 0,0051 to 0,05μF Cap. Value CD 0,005μF 0,05μF Cap. Value CD 0,005μF 0,05μF D.F of Cd. 0,5% max. 0,5%max.
			placed test. Th dischar 60Hz p capacit	to a voltage that. DC 5KV across the e interval between ge is to be 5s. AC2 otential is to applied or under test andis	e capacitor under successive 40V (r.m.s.)- d across the to be maintained	Solde	erability of leads	uniformly coa direction of	over 3/4 of the	The lead wire of capacitor shall be dipped into molten solder of $235 \pm 5^{\circ}$ C for 2 ± 0.5 The depth of immersion is up to about 1,5 2,0mm from the root of lead wires.
				after the fouth disc s opened in a short			A m m m m m m	No ma	rket defect	
			breakdo	own of the capacito	r.The direct	istance	Apperance	Within the sp	ecified tolerance	
		neese-cloth arour	potentia	supply is to be adju al in accordance wit			Capacitance	Char.	Specification	The capacitor shall firmly be soldered to t supporting lead wire and vibration which 10 to 55Hz in the vibration frequency range
Discharge Trest II	flame.	or				D, F.	B, E D,F, ≤ 2,5% F D,F, ≤ 5,0%		1,5mm in total amplitude, and about 1min the rate of vibration change from 10Hz t 55Hz and back to 10Hz is applied for a to of 6H; 2H each in 3 mutually perpendicu directions.	
			s: High L: Chok	Fig.: raible direct-currer voltage switch e coil of appr. 3m⊢	ht voltage source. I and 0,03Ω					
			Vac.: si	fuse rated 30A and						Y2 AC Ceramic Capacito 250VAC
				pacitor under test.						
				mp Capacitor	\\/ilcon		Messa		01 11 2010	Part No.: I22003
DRW: APPD:	Jaso	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:
ww.edcon-com	Schu			FINISH	Jamy		Snee	et No.	7 from 13	mail: info@edcon-components.co

Copyright by EDCON-COMPONENTS

REACH





	ltem	Specification	Testing Method
	Apperance	No marked defect	As in figure, the lead wires shall be immersed solder of $350 \pm 10^{\circ}$ C or $260 \pm$
	Capacitance change	Within ± 10%	5°C up to 1,5 ~ 2,0mm from the root of the terminal for 3,5 \pm 0,5s. (10 \pm 1s for 260 \pm 5°C).
	I.R.	1000M Ω min.	3 6).
Soldering Effect	Dielectric Strength	Pre Item 6.	Pre-treatment: Capacitor shall be stored at 85 ± 2°C for 1h. Then placed at room conditions for 24 ± 2h before initial measurements. Post-treatment: Capacitor shall be stored for 1 to 2 h ar room conditions.

	Item		Specification	Testing Method
(ə	Appearance		No marked defect.	
Stat	Conscitores	Chai	r. Capacitance Change	
dy (Capacitance Change	В	within ± 10%	
trea	onango	E,F	within ± 15%	Set the capacitor for 500 \pm 12h at 40 \pm 2°C
er St		Char.	Specification	in 90 ~ 95% relative humidity. Post-
nde	D,F,	B,E	D.F. ≤ 5,0%	treatment: Capacitor shall be stored for 1 to
n)		F	D.F. ≤ 7,5%	2h at room condition.
dity	I.R.		3000M Ω min.	
Humidity (Under Stready State)	Dielectric Strength		Per Item 6	
	Appearance		No marked defect.	
	Conscitores	Chai	r. Capacitance Change]
D	Capacitance Change	В	within ± 10%	
Humidity Loading	onange	E,F	within ± 15%	Apply the rated voltage for $500 \pm 12h$ at 40
Loi		Char.	Specification	± 2°C in 90 ~ 95% relative humidity. Post-
dity	D,F,	B,E	D.F. ≤ 5,0%	treatment: Capacitor shall be stored for 1 to
nmi		F	D.F. ≤ 7,5%	2h at room condition.
Т	Ξ I.R.		3000M Ω min.	
	Dielectric Strength		Per Item 6	

											mic Capacitor 0VAC
										Part No.:	122003
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	8 from 13	Cusiomer.	
www.edcon-co	omponents.cor	n							е	mail: info@edco	n-components.com

Copyright by EDCON-COMPONENTS







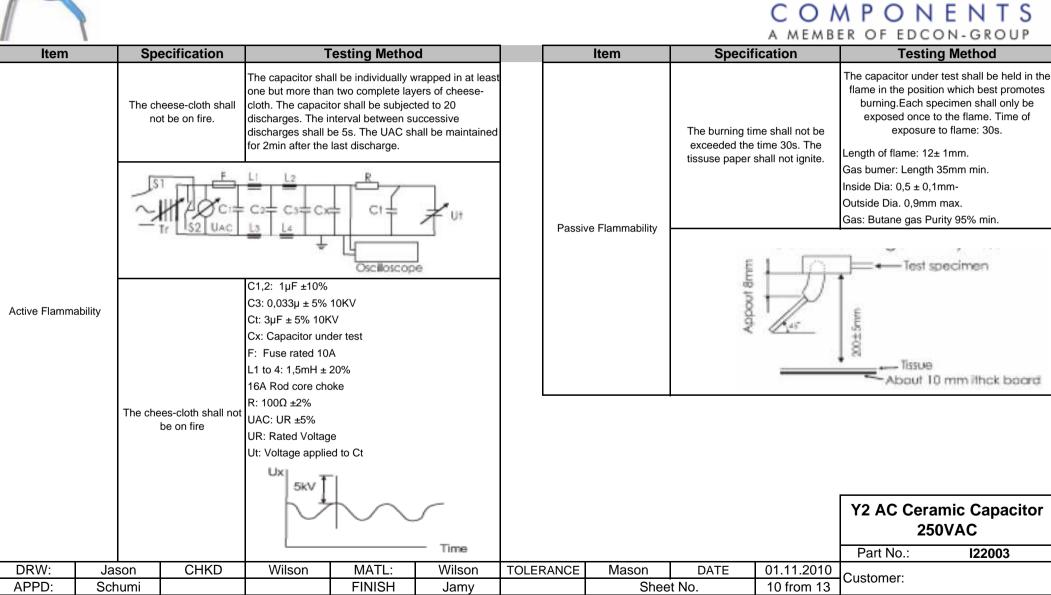
	Item	Specification	Testing Method		Item	Specif		Testing Method
	Appearance Capacitance	No marked defect.	Impulse Voltage					The Capacitor shall be subjected to applied flame for 15s and then removed for 15 s
	Change	Within ± 20%	Each individual Capacity shal be subjected			Cycle	Time	until 5 cycle.
	I.R.	3000M Ω min.	to 5KV impulses for three times. After the capacitance are supplied to life test.			1 to 4	30s max.	LL _Capacitor
	Dielectric Strength	Per Item 6.	100/%)	F	lame Test	5	60s. Max	Fiame
Life	Discharge Test (II)	Per Item 9.	Apply a voltage of table 4 for 1000h at 105 + $2/0^{\circ}$ C, and relative humidity of 50% max. (table 4)	Robustness of Termination	Tensile Bending	Lead wire shall not cut off. Capacitor shall noit be broken.	R.	As a figure, fix the body of capacitor apply a tensile weight gradually to each lead wire in the radila direction of capacitor up to 10N and keep it for 10± 1s.
	Discharge Test (II) Per Item 9.	Applied Voltage AC 425V (r.m.s.). Except that once each hour the oltage is increased to AC 1000V (r.m.s.) for 0,1s. Post-treatment: Cpapcitor shall be stared for 1 to 2h at room temperature.	Active	e Flammability	The chees-cloth fir		Each lead wire shall be subjected to 5N weight and then a 90° bend, at the point of egress, in one direction, return to original position,and then a 90° bend in the opposite direction at the rate of one bend in 2 to 3s.	

											mic Capacitor DVAC
										Part No.:	122003
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	9 from 13	Customer.	
www.edcon-co	omponents.con	<u>n</u>							e	mail: info@edco	n-components.com

Copyright by EDCON-COMPONENTS







www.edcon-components.com

Copyright by EDCON-COMPONENTS





A MEMBER OF EDCON-GROUP

	Item	Sp	ecification		Testing	Metho	d		
	Appearance	-	narked defect	The cap	acitor shall be sub	iected to	5 temperature		
	Capacitance	Char.	Capaci.Change		then consecutively				
	Capacitance	В	Within ± 10%	-,,-					
	onange	E;F	Within ± 20%		Tempera	ture cycle	Э		
				Step	Temperature (°C)		Time		
				1	25 +0/-3		30min		
Φ		Char.	Specification	2	Room temper	ature	3min		
Styl	D.F.	B;E	D.F. ≤ 5,0%	3	.+ 105 +3	/0	30min		
on (D.F.	F D.F. ≤ 7,5%		4	Room temper	ature	3min		
Temperature and Immersion Style				Cycle time: 5cycle Immersion cycle					
ature ar	I.R.	30	000M Ω min.	Step	Temperature (°C)	Time	Immersion Water		
empera				1	. +65 +/-0	15min	Clean Water		
	Dielectria			2	Room Temp.	15min.	Salt Water		
	Dielectric Strength		Per Item 6		nent: Capacitor sl nenplaced at room				
				Post-treatment: Capacitor shall be stored for $24 \pm 2h$ at room conditions.					

"Room Condition" Temperature 15 to 35°C, Relative humidity; 45 to 75%, Atmospheric pressure: 6 to 106KPa.

											amic Capacitor
										Part No.:	122003
DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:	
APPD:	Schumi			FINISH	Jamy		Shee	t No.	11 from 13	Customer.	

www.edcon-components.com

Copyright by EDCON-COMPONENTS



REACH



Ordering Informations

					Talanan					Dealder	
Serie		Range	Temperature	Voltage	Tolerance	Lead Style	Lead Length	Lead Space	ROHS	Packing	
			Character.		Code	Code	Code	Code		Code	
	1	·	TT							I	
122003	-	151	В	251	K	Α	20	D	R	BU	
		151= 150pf	B= Y5P	251=	K= 10%	A= Style A	20= 20mm	A= 2,50mm	R= ROHS	BU= Bulk	7
		151= 150pi	D= TOP	250VAC	K= 10%	A= Style A		A= 2,50mm	Conform	Ware	
		-				B= Style B	05= 5mm /	B= 5,00mm	N= NON	TA= Tape	
						B= Otyle B	±1mm	B = 0,0011111	ROHS	Ammo Pack	
						C= Style C		C= 7,50mm	Conform	TR= Tape	
							4		4	Reel	J
						D= Style D		D= 10,0mm			
						,	-	,	4		
						H= Style H		E= 12,5mm			
						-	4	L	1		
						M= Style M					
							<u> </u>				
											AC Coromio Con
										121	AC Ceramic Cap
											250VAC
										Par	t No.: I2200
DRW:			HKD Wils			son TOLEI	RANCE Ma			L.2010 Custo	mer:
APPD:	Scl	numi		FIN	IISH Ja	my		Sheet No.	12 fr	om 13	
ww.edcon-co	ompon	ents.com								email: ir	nfo@edcon-compone
					Copyrig	ht by EDCON-	COMPONENT	S			

REACH



Soldering Profile Curve

Classification Reflow Profile (JEDEC J-STD-020C)

