







DATA SHEET

Y2 AC Ceramic Capacitor 250VAC

Serie: 122003

Mat. Code B Material: B= Y5P

Voltage Code 251 Voltage: 251= 250VAC

Range Code **271** Range: **271= 270pf**

Y2 AC Ceramic Capacitor 250VAC

Serie No.: **I22003**

Customer:

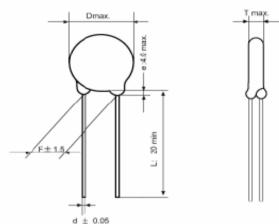
DRW: Jason **CHKD** Wilson MATL: Wilson TOLERANCE Mason DATE 01.11.2010 APPD: Schumi **FINISH** Sheet No. 1 from 13 Jamv







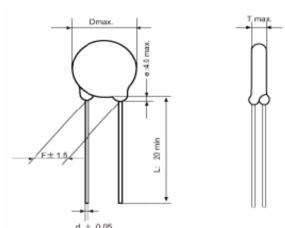




Lead Code Style (A) (mm)

Pitch Code	Α	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 0,8mm						
е		ma	ax. 4,0n	nm	_		

Lead Style Informations



Pilch Code	А	Ь	J	ט			
F	2,5	5,0	7,5	10	12,5		
L		only 20	mm lor	ng lead			
d	0,5 or 0,6 or 0,8mm						
е	max. 4,0mm						

Part No.: Customer:

Technical Specifications

Temperature Characteristics Y5P and Y5U and Y5V

 $Y5P = \pm 10\%$ Capacitance Change of Temperature

 $Y5U = \pm 20\% \sim -55\%$ Coeffizient

 $Y5V = \pm 30\% \sim -80\%$

Temperature Range: . -25°C ~ +85°C

 $K = \pm 10\%$ Capacitance Tolerance: $M = \pm 20\%$

Nominal Capacitance Code (Example)

Capacitance (pf) Code 101 100 102 1000 2200 222 103 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.

MATL: DRW: CHKD Wilson Wilson 01.11.2010 Jason **TOLERANCE** Mason DATE APPD: Schumi FINISH Sheet No. 2 from 13 Jamy

email: info@edcon-components.com

Y2 AC Ceramic Capacitor **250VAC**

122003





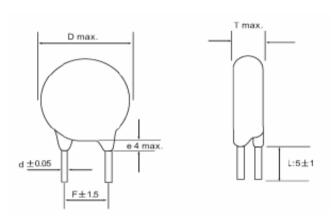


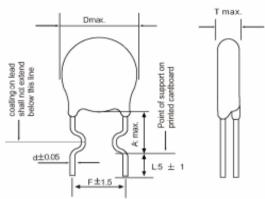


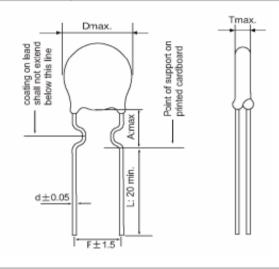
Lead Style Informations

Lead Style Informations

Lead Style Informations







Lead Code Style (B) Unit (mm)

Lead Code Style (C) Unit (mm)

Lead Code Style (D) U	Jnit (mm)
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Pitch Code	Α	В	С	D	Е		
F	2,5	5,0	7,5	10	12,5		
L	5,0mm or on customer request						
d	0,5 or 0,6 or 0,8mm						
е	max. 4,0mm						

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

Y2 AC Ceramic Capacitor 250VAC

Part No.: **I22003**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010
APPD:	Schumi			FINISH	Jamy		Shee	t No.	3 from 13



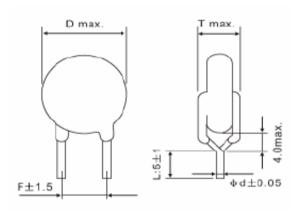


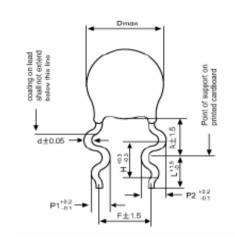




Lead Style Informations

Lead Style Informations





Lead Code Style (H) Unit (mm)

Lead Code Style (M) Unit (mm)

Pitch Code		В	С	D	Е	
F		5,0	7,5	10	12,5	
L	5,0n	nm or o	n custo	mer rec	quest	
d	0,5 or 0,6 or 0,8mm					

Pitch Code		В	C	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	
Α	D<8	3: 6,0±	1,5, D>	8: 7,0±	: 1,5	
L	3,0 ~ 30mm					
d		0,5 or	0,6 or 0),8mm		

Y2 AC Ceramic Capacitor 250VAC

Part No.: **I22003**

Customer:

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







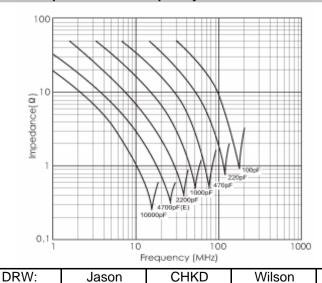


Specification and test method

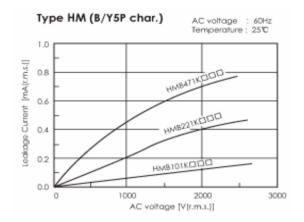
Operating Temperature range -25°C ~ +105°C But temperature range is -25% ~ +85°C at safety standard specification.

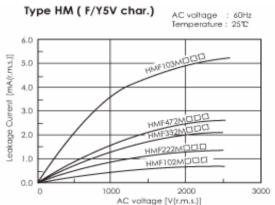
Test and measurement shall be made at the standard condition. (Temperature 15 ~ 35°C relative humidity 45 ~ 75% and athmospheric pressure 860~1060hpa). Unless otherwise specified herein it doubt accurated on the value of measurement, and remesuarement was requested by customer capacitor shall be measuremed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

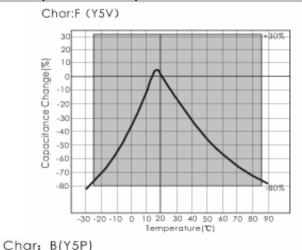


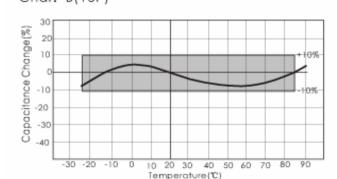
Leakage Current Characteristics





Capacitance Temperature Characteristics





Y2 AC Ceramic Capacitor **250VAC** Part No.: 122003

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rom 13	Customer:

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F. 200		HWE10343	
£ 4.0			
E 3.0			
5	_ /	HMF472N	000

01. MATL: Wilson **TOLERANCE** Mason DATE FINISH 5 from 13 Sheet No. Jamy

Schumi

APPD:









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	Item		Specification			Testing Me	thod			Item		Specif	ication		Testi	ng Method
								_								
	perance and		arked defect on app and dimension are		eye	pacitor shall be irsp s for visible evider	nce of defect.				Char	r. Capaci	tance Change			e measurement shall be tep specified in table 3.
D	imensions	110111	specified range.	Within	Dimen	sions shall be mea					В	W	vithin ± 10%		Step	Temperature (°C)
			3, 3, 3, 3, 3,			calipers.			T	emperature	Е	withi	in + 20% -55%		1	.+ 20 ±2
	Marking		To be easily legible	э.	The cap	pacitor shall be irsp eyes	pected by nacked		Ch	aracteristics	F	withi	in + 30% -80%		3	25 ±2 .+ 20 ±2
	apacitance	١٨.	/ithin spefied tolera	200							Temp	perature	characteristics		4	.+ 85 ±2
	apacitarice	VV	Char. Specification		The	capacitance, dissi	pation shall be				gua	rantee is	-25 to +85°C		5	.+ 33 ±2 .+ 20 ±2
Discipa	tion Factor (D,	-	B. E= D.F=≤2.5			ed at 25 ± 2°C with	h 1 \pm 0,1KHz and								5	.+ 20 ±2
Dissipa	mon Factor (D,	' '	F = D, F = 5,0%		ł	$AC1 \pm 0.1V$ (r	r.m.s)			Apperance		No mork	ed defect.	As in	figure , disch	arge in made 50 times at
			F= D,F= \$ 5,0%	0						Apperance	'	INO IIIAIK	ed delect.	5sec	intervalls from	n the capacitor (Cd)
Insulatio	n Resistance R)	(10000M Ω min.			ulation resistance s DC 500 ± 50V with charging	in 60 ±5sec. Of			I.R.		1000M	I Ω min.	charged at DC voltage of specified		
	Between Lea wires	d	No failure		The capacitor shall not be damage when AC 2600V (r.m.s.) are applied between the lead wires for 60s.				Discharge test (1)						Vs.T.	Cd Ct R2
Dielectric Strength	Body Insulation	on .	No failure		connecte right, a m the body 3-4mm fro cap insete	terminals of the capa d together. Then as s etal foil shall be close of the capacitor to the om each terminal. The acitor shall be dinto a container vith ballsof about	shown in Figure ely wrapped around e distance of about een the		Discharg	Dielectric Strength		per It	tem 6.	Cd: 0 S: high R1: 1 R2: 1 R3: 3	Fig capacitor unde 0,001μF gh voltage swi 1000Ω 1000MΩ Surge resistan DC 10KV	r Test
						ameter. Finally AC	ДД 3-4mm				1			1.5.2		
					AC2600(r.m.s.) is applied for 60s between the capacitor lead wires and metal balls.										25	amic Capacitor 50VAC
				-										P	art No.:	122003
DR API		lason chumi	CHKD	Wil	son	MATL: FINISH	Wilson Jamy	TOLER	RANCE	Mason Shee	DA	TE	01.11.2010 6 from 13	Cus	tomer:	
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Item			Specification			Testing Me	thod			Item	- Sn	ecification	Testino	Method	
Item			Specification			resuing we	illou			Item	- Sp	ecincation		and D.F. are follows.	
					A single layer of cheese cloth is to be placed around the body of the test capacitor. Each sample is to be subjected to four dicharges from a dump capacitor charged to a voltage that. When discharged, placed DC 5KV across the capacitor under test. The interval between successive discharge is to be 5s. AC240V (r.m.s.)-60Hz potential is to applied across the capacitor under test andis to be maintained for 30s. after the fouth discharge, unless the				Disc	harge Trest II		-cloth around cpacitors ot glow or flame.	Cap. Value Cd to 0,0	0,005µF 0,0051 to 05µF	
									Solderability of leads		Lead wire shall be soldered with uniformly coated on the axial direction over 3/4 of the circumferential direction.		The lead wire of capa into molten solder of	citor shall be dipped 235 ± 5°C for 2 ± 0,5s. on is up to about 1,5 to	
						opened in a short	•			Apperance	No	market defect			
					breakdo	wn of the capacito	r.The direct			Apperance	Within the	specified tolerance	The conscitor shall fi	rools, be caldered to the	
		The cheese-cloth around				supply is to be adjust in accordance wi	usted to provide a th the following.		istance	Capacitance	Char. Specification		The capacitor shall firmly be soldered to supporting lead wire and vibration which 10 to 55Hz in the vibration frequency ran		
Discharge Tre	st II	cpacitors shall not glow o flame.		ow or	Vdc= 5000(Cd+Ct) (V) Cd Vac F Ct Cd Vdc				Vibration Resistance	D, F.	B, E F	D,F, ≤ 2,5% D,F, ≤ 5,0%	1,5mm in total amplitude, and about the rate of vibration change from 10 55Hz and back to 10Hz is applied for of 6H; 2H each in 3 mutually perpen- directions.		
					Vdc: Var	raible direct-currer		_							
						oltage switch		1							
				l.		e coil of appr. 3ml		1							
					F: Plug fuse rated 30A and 250V Vac.: supply source rated 240V 60Hz 30A								Y2 AC Cerar	mic Capacitor	
					C1: Capacitor under test. Cd: Dump Capacitor								250	VAC	
				l.				1					Part No.:	122003	
DRW:	Jas	on	CHKD	Wils	son	MATL:	Wilson	TOLER	RANCE	Mason	DATE	01.11.2010	Customer:		
APPD:	Schi	umi				FINISH	Jamy			Shee	et No.	7 from 13	Customer.		

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	Item	Specification	Testing Method
	Apperance	No marked defect	As in figure, the lead wires shall be immersed solder of 350 ± 10°C or 260 ±
	Capacitance change	Within ± 10%	5° C up to 1,5 ~ 2,0mm from the root of the terminal for 3,5 ± 0,5s. (10 ± 1s for 260 ±
	I.R.	1000M Ω min.	5°C).
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
(e)	Appearance		No marked defect.	
Stat	Compositor and	Cha	r. Capacitance Change	
\$ ₹	Capacitance Change	В	within ± 10%	
rea	Onlange	E,F	within ± 15%	Set the capacitor for $500 \pm 12h$ at $40 \pm 2^{\circ}C$
r 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.	
	0	Cha	r. Capacitance Change	
D ₀	Capacitance Change	В	within ± 10%	
Humidity Loading	Orlange	E,F	within ± 15%	Apply the rated voltage for 500 ± 12h at 40
Ľ		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
i m		F	D.F. ≤ 7,5%	2h at room condition.
Ī	I.R.		3000M Ω min.	
	Dielectric Strength	_	Per Item 6	

Y2 AC Ceramic Capacitor
250VAC

Part No.: **I22003**

.11.2010 Customer:

CHKD MATL: DRW: Wilson Mason Jason Wilson TOLERANCE DATE 01.11.2010 APPD: FINISH Sheet No. Schumi 8 from 13 Jamy









111	1		
	Item	Specification	Testing Method
	Appearance	No marked defect.	Impulse Voltage
	Capacitance Change	Within ± 20%	Each individual Capacity shal be subjected to 5KV impulses for three times. After the
	I.R.	3000M Ω min.	capacitance are supplied to life test.
	Dielectric Strength	Per Item 6.	100/%)
Life	Discharge Test (II)	Per Item 9.	Apply a voltage of table 4 for 1000h at 105 +2/0°C, and relative humidity of 50% max. (table 4) 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.

	Item	Specif	ication	Testing Method				
		The capacitor flan follows.	ne discontinue as	The Capacitor shall be subjected to applied flame for 15s and then removed for 15 s				
		Cycle Time		until 5 cycle.				
		1 to 4	30s max.	11				
_	lame Test	5	60s. Max	10 Capacitor				
				Sos Burner (in mm)				
ss of tion	Tensile	Lead wire shall		As a figure, fix the body of capacitor apply a				
Robustness of Termination	Bending	not cut off. Capacitor shall noit be broken.		tensile weight gradually to each lead wire in the radila direction of capacitor up to 10N and keep it for 10± 1s.				
Activ	e Flammability	The chees-cloth	n shall not be on e.	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.				

Y2 AC Cera	mic Capacitor
250	0VAC
Part No.:	122003

ĺ	DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Cuetomor
	APPD:	Schumi			FINISH	Jamy		Shee	t No.	9 from 13	Customer:

Post-treatment: Cpapcitor shall be stared

for 1 to 2h at room temperature.









Item		Specification		Testing Metho	d		Item	Specif	ication	Testing Method
		The cheese-cloth sh not be on fire.	one but more that cloth. The capac discharges. The	all be individually wan two complete lay itor shall be subject interval between sube 5s. The UAC start discharge.	yers of cheese- eted to 20 uccessive			exceeded the	me shall not be time 30s. The shall not ignite.	The capacitor under test shall be held in the flame in the position which best promotes burning. Each specimen shall only be exposed once to the flame. Time of exposure to flame: 30s. Length of flame: 12± 1mm.
		\$1 	C2 C3	CI	Ut	Pass	ve Flammability	-		Gas bumer: Length 35mm min. Inside Dia: 0,5 ± 0,1mm- Outside Dia. 0,9mm max. Gas: Butane gas Purity 95% min.
Active Flammab	_ ility		C1,2: 1µF ±10% C3: 0,033µ ± 5% Ct: 3µF ± 5% 10I Cx: Capacitor un F: Fuse rated 10 L1 to 4: 1,5mH ± 16A Rod core ch	10KV KV der test 0A 20%	ne			Appout 8mm	25	Test specimen Test specimen Tissue About 10 mm ithak board
		The chees-cloth shall be on fire	not R: 100Ω ±2% UAC: UR ±5% UR: Rated Voltage Ut: Voltage appli	-	_					
				Time						Y2 AC Ceramic Capacitor 250VAC Part No.: 122003
DRW:	Jaso		Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010	Customer:
APPD:	Schu	ımi		FINISH	Jamy		Shee	t No.	10 from 13	Odotomor.

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	Item	Sp	ecification		Testing	Metho	od			
	Appearance	Noı	marked defect	Th	a aita wala ali la a a sub	:	F to man a notiona			
	0	Char. Capaci.Change		The capacitor shall be subjected to 5 temperature cyclies, then consecutively to 2 immersion cycles.						
	Capacitance Change	B Within ± 10%		cyclies, then consecutively to 2 infinersion cycles.						
	Orlange	E;F	Within ± 20%		Tempera	ture cycle	е			
				Step	Temperature	(°C)	Time			
Temperature and Immersion Style				1	25 +0/-3		30min			
		Char.	Specification	2	Room temper	ature	3min			
	D.F.	B;E	D.F. ≤ 5,0%	3	.+ 105 +3	/0	30min			
	D.I .	F D.F. ≤ 7,5%		4	Room temper	ature	3min			
						Cycle tin	ne: 5cycle			
					Immersion of	ycle				
pu										
ature a	I.R.	30	000M Ω min.	Step	Temperature (°C)	Time	Immersion Water			
empera				1	. +65 +/-0	15min	Clean Water			
	Dialogateia			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 ± 2h at room conditions.						

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

Y2 AC Ceramic Capacitor 250VAC

Part No.: **I22003**

Customer:

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









Ordering Informations

Serie		Range	Temperature Character.	Voltage	Tolerance Code	Lead Style Code	Lead Length Code	Lead Space Code	ROHS	Packing Code	
122003	_	271	В	251	K	Α	20	D	R	BU	
		271= 270pf	B= Y5P	251= 250VAC	K= 10%	A= Style A	20= 20mm	A= 2,50mm	R= ROHS Conform	BU= Bulk Ware	
						B= Style B	05= 5mm / ±1mm	B= 5,00mm	N= NON ROHS	TA= Tape Ammo Pack	
						C= Style C		C = 7,50mm	Conform	TR= Tape Reel	
						D= Style D		D= 10,0mm			
						H= Style H		E= 12,5mm			
						M= Style M					

Y2 AC Ceramic Capacitor 250VAC

Part No.: **I22003**

Customer:

DRW:	Jason	CHKD	Wilson	MATL:	Wilson	TOLERANCE	Mason	DATE	01.11.2010
APPD:	Schumi			FINISH	Jamy		Sheet No.		12 from 13



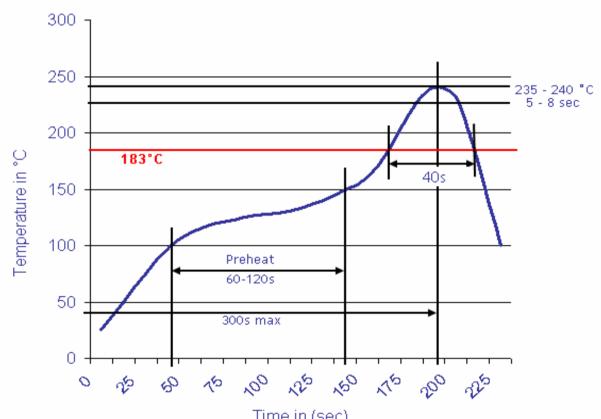






Soldering Profile Curve

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



Time in (sec)

Y2 AC Ceramic Capacitor **250VAC**

Part No.: 122003

Customer:

MATL: DRW: CHKD Wilson Wilson TOLERANCE Mason DATE 01.11.2010 Jason APPD: FINISH Schumi Sheet No. 13 from 13 Jamy