Approved/Recognized Type

Related	Standard	Certificate NO	APProved Monogram
CQC (China)	IEC 60384-14	CQC13001103539	
KC (Korea)	K60384	SU03044-9002	<u>S</u>
UL(usa) CSA(Canada)	IEC UL 60384	E356696	c FLL us
ENEC (EU)	EN 60384-14	ENEC-00984	15
VDE (Germany)	EN 60384-14	40038643	
IEC CB	IEC 60384-14	US-33636-UL	

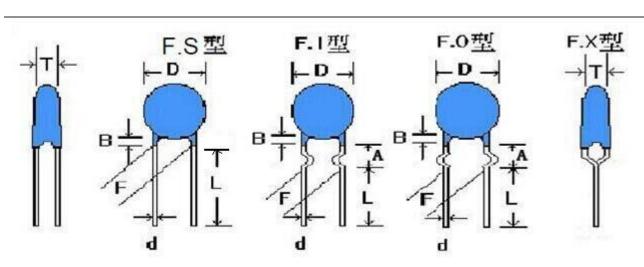
Specifications

					1		
−40° C to +85° C							
−40 °C to +125 °C							
UL, CSA, CQC, ENEC, VDE,KC			X1		Y2		
			40	400VAC 300VAC			
F	Rted Voltage			Test	t Voltage		
	300VAC			1800V-2600	0 VAC for 1 min.		
Y5P,Y5U	TANδ(DF) ≦	2.5%,meas	ured at	: 1KHz±10%,1.0	0 — 5.0 Vrms,25℃		
Y5V	TAN δ (DF) ≦5.0%,measured at 1KHz±10%,1.0 - 5.0 Vrms,25°C						
Range	Range 10 pF to 10000 pF. measured at 1KHz \pm 10%, 1.0 $-$ 5.0 Vrms, 25°C						
Tolerance	±10% Y5P						
	±10%	VELL					
	±20%	Y5U					
	±20%	Y5V					
	10000) ΜΩ ,	1	min , 500 VD0	C		
Type Code	Temp. Coef	f. Tem	p. Ran	ige			
Y5P	±10%	-40	°C to	+85℃, -40	℃ to +125℃		
Y5V	+30%~-89	9% -40	°C to	+85℃, -40	°C to +125℃		
Y5U	+22%~-65	5% -40	°C to	+85℃, -40	°C to +125℃		
	F Y5P,Y5U Y5V Range Tolerance Tolerance Y5P Y5V	Rted Voltage $300VAC$ Y5P,Y5UTAN $\delta(DF) \leq$ Y5VTAN $\delta(DF) \leq$ Range10 pF to 1Tolerance $\pm 10\%$ $\pm 20\%$ $\pm 20\%$ $\pm 20\%$ 10000Type CodeTemp. CoefY5P $\pm 10\%$ Y5P $\pm 10\%$ Y5V $+30\%$ ~-88	$-40^{\circ}C$ UL, CSA, CQC, ENEC, VDE,KC Rted Voltage 300VAC Y5P,Y5U TAN δ (DF) $\leq 2.5\%$,meas Y5V TAN δ (DF) $\leq 5.0\%$,meas Range 10 pF to 10000 pF.m Tolerance $\pm 10\%$ Y5P $\pm 10\%$ Y5V 10000 M Ω , Type Code Temp. Coeff. Temp Y5P $\pm 10\%$ Temp Y5V -40%	$-40^{\circ}C \text{ to}$ $UL, CSA, CQC, ENEC, VDE, KC$ $Rted Voltage$ $300VAC$ $Y5P, Y5U$ $TAN\delta(DF) \leq 2.5\%, measured at$ $Y5V$ $TAN\delta(DF) \leq 5.0\%, measured at$ $Range$ $10 \text{ pF to } 10000 \text{ pF. measure}$ $10 \text{ pF to } 10000 \text{ pF. measure}$ $10 \text{ pF to } 10000 \text{ pF. measure}$ $10 \text{ pF to } 10000 \text{ pF. measure}$ $10 \text{ pF to } 10000 \text{ pF. measure}$ $10000 \text{ M}\Omega \text{ , 1}$	$-40^{\circ}C \text{ to } +125^{\circ}C$ $UL, CSA, CQC, ENEC, VDE, KC$ $Rted Voltage Tes 300VAC 1800V-2600 Y5P, Y5U TAN\delta(DF) \leq 2.5\%, measured at 1KHz±10\%, 1.0 Y5V TAN\delta(DF) \leq 5.0\%, measured at 1KHz±10\%, 1.0 Range 10 pF to 10000 pF. measured at 1KHz±10\%, 1.0 Range 10 pF to 10000 pF. measured at 1KHz±10\% Tolerance \pm 10\% Y5P \pm 10\% Y5D \pm 20\% Y5U 10000 \text{ M}\Omega, 1 min, 500 VD0 Type Code Temp. Coeff. Temp. Range Y5P \pm 10\% -40^{\circ}C to +85^{\circ}C, -40 Y5V +30\%~-89\% -40^{\circ}C to +85^{\circ}C, -40 Y5V +30\%$		

Part Number Configuration: JY 102 K 2F Y5P S T 7.5 L (1) (2) (3) (4) (5) (6) (编带) (7) (8)

- (1) AC capacitors, afety(2) Rated capacitance
- (5) Type code : (B)Y5P, (F)Y5V, (E)Y5U
 - (6) Lead shape:S(直角), I(内弯), O(外弯), X(前后弯)
- (3) Tolerance on rated capacitance (7) Pin pitch : 7.5or9.5or10.0
- (4) Rated Voltage

(7) Pin pitch : 7.50r9.50r10.0 (8) Lead length: 3-30mm



Dimensions and Tolerance B=3.0mm max for AA L=3-27mm

承认规格详细参数(Approved Spec. Data)

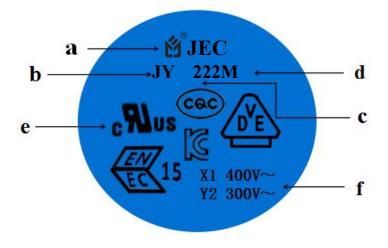
品名规格	D (MAX)	F±0.8	L (MIN) mm	$T\pm$ 0.5mm	d±0.05mm	DF 值	Amm	В	备注

Marking:

- a. Trademark or Company name
- b. Product Type JY Series
- c. Nominal Capacitance 222=2200pF,
- d. Tolerance
- e. Recognized Type
- f. Rated Voltage

K= ±10%, M= ±20% cUL, CQC, VDE, ENEC, KC X1=400Vac , Y2=300Vac

JEC 🕅



1. Packing Quantity:

Packing	Safety	High Voltage	Ceramic	
	Capacitor	Capacitor(Y1, Y2)	Capacitor DC	
Bulk	1000pcs	1000pcs	1000pcs	
Tape Ammo	2000pcs	1500pcs	2000pcs	

ROHS Compliance , SVHC

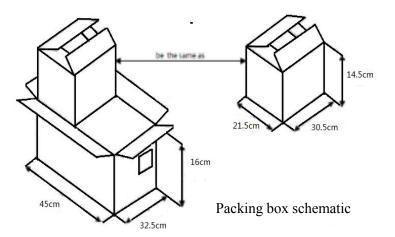


2. Packing information

2.1 the number of plastic bags in each bag is 1000 PCS. Internal label and ROHS qualification label.

2.2 the quantity of each small box is 10k-30k. 1K is a bag. It depends on the product volume.

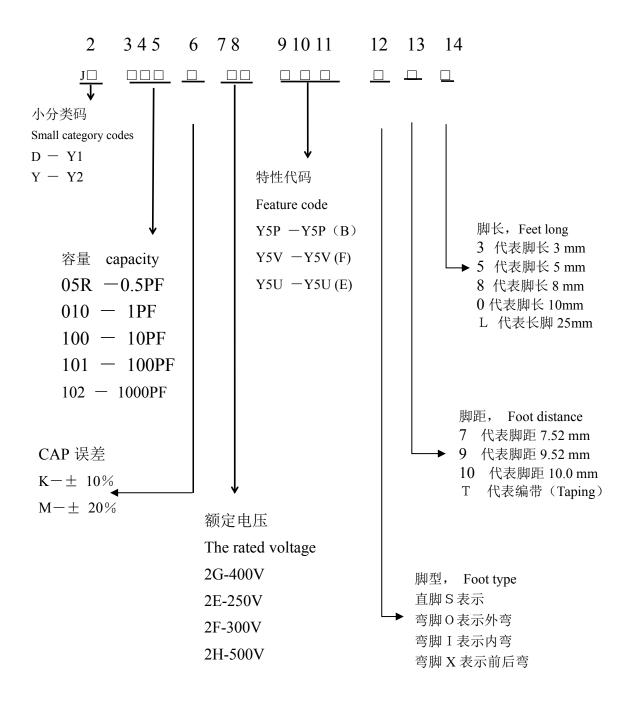
2.3 each large box can hold two small boxes.



料號編碼規定如下:

成品之編碼原則上以十五碼完成,亦以阿拉伯數字與英文字母混合編成,第二碼至第十一碼與瓷片相同。 第一碼以J代表自製(取JEC商標第一字)

The coding of the finished product is in principle 15 codes, which are mixed with Arabic numerals and English letters Sizes 2 to 11 are the same as the tiles The first code is represented by J (take the first word of JEC trademark) $_{\circ}$



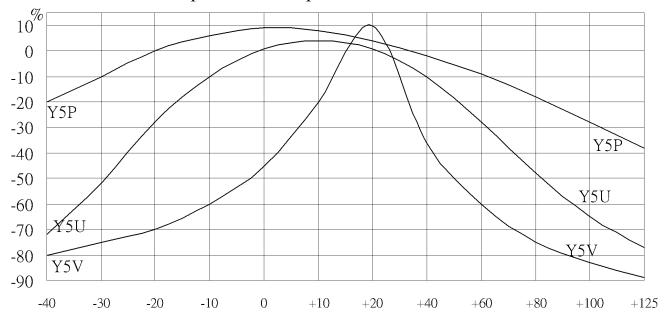
Capacitance and Dimensions:

						Dimen	sion(m	m)	
Part Number	T.C.	CAP.	TOL.	D max		F±0.8	Bmm	T max	Φ d(±0.05)
JY10K2FY5P To JY82K2FY5P		10pF To 82PF		6.3					
JY101K2FY5P		100PF		6.3					
JY151K2FY5P		150PF		6.3					
JY221K2FY5P		220PF	к	6.3					
JY331K2FY5P		330PF	±10%	6.3					
JY471K2FY5P	±10%	470PF		6.8					0.55
JY561K2FY5P	(Y5P)	560PF		7.7				5.0	
JY681K2FY5P	-	680PF		7.7	7.5				
JY102K2FY5P		1000PF		8.8					
JY102M2FY5U		1000PF	-	6.3					
JY152M2FY5U	+22	1500PF		7.7		9.5	10		
JY222M2FY5U	~-65%	2200PF		9.3		0.0			
JY332M2FY5U	(Y5U)	3300PF		10.3					
JY472M2FY5U		4700PF		11.5					
JY102M2FY5V		1000PF	M	6.3					
JY152M2FY5V		1500PF	±20%	6.3					
JY222M2FY5V		2200PF		6.8					
JY332M2FY5V		3300PF		8.5					
JY392M2FY5V		3900PF		9.3					
JY472M2FY5V	+30	4700PF		9.3					
JY562M2FY5V	~-89%	5600PF		10.2					
JY682M2FY5V	(Y5V)	6800PF		11.5					
JY103M2FY5V		10000PF		13.7					

注:本规格仅作参考,在没有告知的情况下,有可能变更或改进,如有需求请咨询我司。

El	CHARACTERISTIC CHART					
Firs	Second	Last Digit is Capacitance Change Over				
Digit is low	Digit is High	Temperature Range From + 25 C Reading				
Temperature	Temperature					
X: − 55°C	4: + 65℃	A ± 1.0 %				
Y: -25℃	5: +85℃	B ± 1.5 %				
Z: +10℃	6: +105℃	C ± 2.2 %				
	7 : + 125℃	D ± 3.3 %				
	8: +150℃	E ± 4.7 %				
		F ± 7.5 %				
		P ± 10 %				
		R ± 15 %				
		S ± 22 %				
		T + 22 % - 33 %				
		U + 22 % - 56 %				
		V + 22 % - 82 %				

Capacitance Temperature Characteristics



Performance & Tests, draw up by IEC 60384-14:2005 and GB/T 6346

"Note: (1) Is was defined according with IEC 60384-14:2005, when for qualification approval and periodic tests, the withstanding test must last to 1 minute, and it belong to destroyed test domain, therefore, after the test, capacitors should be scrap. Withstand voltage test should rise slowly at 150V/s, and test time is counted from when the voltage reaches to experiment requirement." (2) The test time is more than 1 second at production period, and the rated test voltage is applied.

NO.	Cupu	Item	Characteristic		Test Method			
1	Anne	arance and	Please refer to figures and	1~1	"Production line visual inspection must be done			
		imensions	tables on page 2, 3 and 4.		in full and remove the defective products."			
			, asies on page 2, 5 and 4.	1~2	"Dimensions measurement by micrometer and			
					Caliper			
2		Marks	Must be clean and clear.		Label need to be able endure wiping with			
				2~1	Isopropanol			
3					Rated voltage: 300VAC for Y2, test voltage			
	Я				2000 VAC or 2600 VAC, time 60s, frequency:			
	⁷ iths	Between			50Hz/60Hz			
	itanc	terminal	Can not have exceptions.	3~1	Rated voltage: 400VAC for Y1, test voltage			
	1 vo				4000 VAC, Approval and period test: 60s, Lot			
	ltag				inspection 100% and time 2s, dicharge current			
	e tes				must ≤ 50 mA."			
	Withstand voltage test (I)				Use metal foil test method: use metal foil wrap			
	\Box	Between			around the capacitor body, each end extending			
		terminal	Can not have exceptions.	3~2	at least 5mm, and keep 1mm/1kV distance			
		and		52	minimum, between metal foil and terminals. for			
		coating.			Y2, test voltage 2300VAC; for Y1, test			
					voltage 4000VAC, test time 60s.			
4		stand voltage	(1)Gauze shall not ignite.					
		I) (For safety	(2)Capacitors shall not in	4~1	According to IEC 60384-14 and GB/T6346			
		mbol A2)	burned.		requirements.			
5		stand voltage	(3)Elements and coating must					
	,	V)(For safety	not scattered. (4)Terminals		According to IEC 60384-14 and GB/T6346			
	sy	mbol B2)	can not be moved away from	5~1	requirements.			
			the mounting position than					
6		Datwaar	3mm.					
6	Ι	Between terminals	More than $10000M\Omega$.		Measured voltage is $100 \pm 15V$ within 1			
		ween terminals		6~1	minute, and IR keeps within the specified value.			
			More than 10000MΩ.		minute, and its keeps within the specified value.			
		and coating.						
7		•	Within specified tolerance	7~1	The Capacitance shall be measured at 25° C,			
		pacitance			with 1±0.1kHz and 5Vrms max			
8	Dissipa		B(Y5P) tan $\leq 2.5\%$	8~1	"The Dissipation Factor shall be measured at 25°C with			
	Factor	(D.F)	$E(Y5U) \tan \leq 2.5\%$		1±0.1kHz and 5Vrms max			
			$F(Y5V) \tan \leq 5.0\%$					

Capacitors may cause to damage when withstand voltage test repeated."

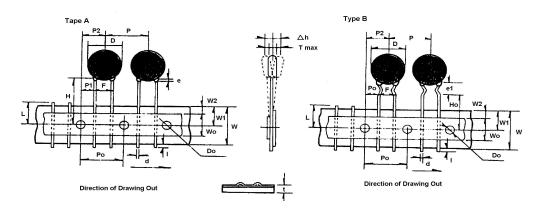
NO Item Characteristic	Test Method
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					JEC) ELEC					
9		Temperature (9~1	Temperature	Coefficient	(T.C. category	
		(T.C. category	applic	cable):			applicable):			
		TYPE		SL	YN	9~2	PPM/	$^{\circ}C = (Ct2 - Ct)$:1)	
		Temp.Range						/Ct1*	1*(t2-t1)	
	Ter			+ 350~	- 800~		Ct2: the capa	Ct2: the capacitance of t2		
	npe	20~85℃		-1000pp	-5800		Ct1: the capacitance of t1			
	erat	20 05 0		m∕℃	ppm∕°C		t2: $85^{\circ}C \pm 3^{\circ}C$			
	Temperature			in c	ppin c			1: 20℃±2℃		
		Tomporatu	ura al	horostoris	tics: (High		Temperature p			
		-			ues. (mgn			$2) -25 \pm 2^{\circ} C \rightarrow$	3) 20±2°C →4)	
	Ch	Dielectric			within the		$\begin{vmatrix} 1 \end{pmatrix} 20 \pm 2 \ \mathbb{C} \rightarrow \\ 85 \pm 2 \ \mathbb{C} \rightarrow 5 \end{vmatrix}$		$3) 20 \pm 2 C \rightarrow 4)$	
	Characteristic	-	ce ch	ange rate	within the					
	cte	range:					-	hange: (High L	Dielectric Category	
	rist	-					applicable)			
	ic	21		hin ±10%		9~3		Ctx - Ct20)/Ct20		
		51			-56%		1		1 、 3 、 5, The	
		Type F	Witl	hin + 30	% -85%			any temperatur	re between phase 2	
							to phase 4.			
							Ct20: The ca	apacitance of pl	nase 3 temp.	
10	Rot		Lead	d wires not	be snapped	10~1	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Time(sec)	
	Robustness	Tensile							10	
	less		Cap	acitors not	be damaged				10	
	of					10~2			nd apply a tensile	
							weight gradua	lly to each lead	l wire in the radial	
	irmi.						direction			
	terminations		Lead	d wires not	be fractured	10~3	Diameter(mm)	Load(kgs)	Bending angle is	
	suc	Bending	Capa	acitors not	be damaged		0.5Φ	0.25	90 more than	
							0.60~0.80	0.5	twice.	
	Vib	Appearance	No s	significant a	abnormal	11~1	-	2	0Hz to 55Hz and	
	rati	Сар.	With	nin specific	ation			1	5mm, period time	
11	Vibrationresistance	Change		1			within 1 minut	e °		
	xisti	Q or DF	with	in initial sr	ecification					
	ance			·						
12						12~1	Solder tempera	ature 350+10℃		
14	Sol	Appearance	No	significant a	hnormal	12-1		unit 330±10 C		
	deri	Appearance		significant a	aonormai		Immersion tim			
	ng	Distant			:41 41	10.0		$= 3.0 \pm 0.380$		
	Hea	Dielectric		pliance	with the	12~2	Discut	1'' 0	- 4 04 1	
	Soldering Heat Resistance	Strength I	char	acteristic a	s No.3				r 4~24 hours, and	
	esis	Capacitance	B: w	ithin ±10%	ý 0	12~3	then to measur	e.		
	tanı	change rate	E: w	vithin ±15%)					
	æ		F: w	vithin ±20%)					
No	Item			racteristic			 	Test Method		
INO	nem		Una	racteristic			1	cst method		

		The round sur	face of lead wires, there	13~1	Solder temperature 275±10°C
13	Solder		area welding with the	13~2	Immersion time 2.0 ± 0.5 sec
	ability	solder.			
14		Appearance	No significant abnormal	14~1	Temperature: 40±2°C
			_		-
	Н	Dielectric	Must meet the		
	umi	Strength I	requirements	14~2	Humidity: 90~95%RH
	dity		of No.3		
	(Un	Between		14~3	Time: 500±12 Hrs
	der	terminals	More than the 1/2 value		
	Stea	<u></u>	of No.6 requirements.	14~4	Remove & placed at room condition for 1~2
	Humidity (Under Steady State)	<i>≂</i> ^{Between}			hours, and then to measure.
	Stat	terminal			
	e)	& coating			
		Capacitance	Type B within ±15%		
		change rate	Type E within ±20%		
			Type F within $\pm 30\%$		
		Dissipation	Type B & E, under 5%.		
		Factor (D.F)	Type F, under 7.5%		
15		Appearance	No significant abnormal		
				15~1	Temperature: 40±2°C
		Dielectric	Must meet the		
	Daı	Strength I	requirements	15~2	Humidity: 90~95%RH
	mp l		of No.3	15**2	
	neat				
	Damp heat loading	Between		15~3	Time: 500±12 Hrs
	ding	terminals Between	More than the $1/2$ value		-
		$\left \Xi \right _{\text{terminal}}^{\text{Between}}$	of No.6 requirements.		
		& coating		15~4	Voltage: AC 180Vrms
		Consistence	Tuno D within + 150/	15~5	Current: Less than 50mA
		Capacitance change rate	Type B within ±15% Type E within ±20%		
		change rate	Type E within $\pm 20\%$ Type F within $\pm 30\%$	15~6	Remove & placed at room condition for 1~2
			1 ype i wiunn ± 50 /0		hours, and then to measure.
		Dissipation	Type B & E, under 5%		
		Factor (D.F)	Type F, under 7.5%.		

lo Item Cl			racteristic		Test Method
	Appearance No significant abnormal Dielectric Strength I "Must meet the requirements of No.3		16~1	Temperature: 85±3℃; 125±5℃	
Endu			-	16~2	Time: 1000±12 Hrs
urance	I R	Between terminals	More than the 1/2 value of No.6 requirements.	16~3	Voltage: rated voltage of 1.7UR
		Between terminal&coating		16~4	Current: less than 50mA
	Caj	pacitance change rate	Type B within ±15% Type E within ±20% Type F within ±30%	16~5	Remove & placed at room condition for 1~2 hours, and then to measure.
	Dis	sipation Factor (D.F)	Type B & E, under 5% Type F, under 7.5%		
Flame	e Tes	st	Applicable safety symbols A2, B2.		The capacitor should be subjected to applied flame for 15 sec, and then removed for 15 sec, until 3 cycles are completed. And then continued to flame a minute and never to explode.
Solve	nt	Resistance (Body)	After the test must meet the standards of its electrical properties		The capacitor should be immersed into a isopropyl alcohol for 5 ± 0.5 minutes, then removed and placed for 48 hrs. at room condition before post measurements.
Solve	nt	Resistance (Mark)	Marks should be legible		Use cotton yarn dips isopropyl alcohol, by force 5±0.5 N/1 cm^2, 1 second round trip twice to wipe mark on the body, and run 5 cycles.
	Endurance	Flame Tes	Filame Test $Appearance Dielectric Strength I Between terminals Between terminal&coating Capacitance change rate Dissipation Factor (D.F) Solvent Resistance (Body)$	Image: Provide the standards of its Image: Provide the standards of its	Image:

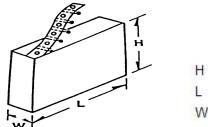
TAPING SPECIFICATIONS



Taping (Radial)--Lead Spacing F= 7.5±0.8 or 10.0±0.8

Item		Code	Dimensions (mm)	Item	Code	Dimensions (mm)
Taping Pitc	h	Р	12.7/15.0±1.0	Lead Protrusion	1	+0.5~1.0
Guide Pitch	1	Ро	12.7/15.0±1.0	Diameter of Feed Hole	Do	4.0±0.3
Lead Spaci	ng	F	5.0±0.8	Diameter of Lead	d	0.55+0.06
			7.5±0.8 、9.5±0.8			-0.05
Feed Hole	Position Capacitor Body	P2	6.35±1.3	Total Thickness of Tape	t	0.7±0.2
Feed Hole	Position Capacitor Lead	P1	3.85±0.7	Thickness of Capacitor Body	Т	Differ in each product
Diameter O	of ISO	D	See table of	Alignment to FR. Direction	Δ h	0±2.0
			each series	Length of snipped Lead	L	11.0 +0 -1.0
Width Of B	Base Tape	W	18.0±0.5	Width of Hold-down Tape	Wo	12.5
Feed Hole	Vertical Position	W1	9.0 +0.75 -0.05	Hold-down Tape Position	W2	1.5±1.5
Taping For Straight		Но	16.0±0.5	Coating Extention	e	3.0 以下
Height	For Crimp	Н	20 +1.5 -1.0		e1	up to center of crimp

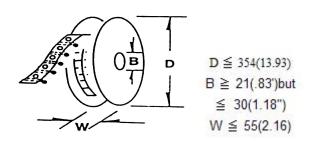
AMMO PACK



 $H = 241\pm 5 \text{ mm}$ $L = 332\pm 5 \text{ mm}$ $W = 42\pm 3 \text{ mm}$

Acceptable to standard radial type cartridge.

REE



Acceptable to standard radial type cartridge with a few extra accessories. Reeled axials are also acceptable to standard axial type cartridge with a few accessories.

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 DE1E3KX222MJ4BN01F
 46KR422000M1K
 B32924C3824K189
 46KI3100DQM1M
 HUB2200-S
 BFC2 33910103
 46KN3330JBM1K

 463I333000M1K
 46KF2470JBN0M
 46KF268000M1M
 46KI22205001M
 46KI24705201K
 46KI2470CK01M
 46KI2470ND01K

 46KI2680JH01M
 46KI315000M2K
 46KI3150CKM2K
 46KI3150NDM2M
 46KI3220JLM1M
 46KN3150JH01K

 46KN34705001K
 46KN347050N0K
 46KN3470JHP0M
 46KN410040H1M
 46KN415000P1M
 46KW510050M1K
 474I24700003K

 PHE840MD6220MD13R30
 PHE840MY6470MD14R06
 PHE845VD5470MR06
 R463N4100ZAM1K
 46KR410050M1K

 YV500103Z060B20X5P
 MKPX2R-1/400/10P27
 YU0AH222M090DAMD0B
 LS1808N102K302NX080TM
 ERK610Z472MCRU

 R463F210000N0K
 R463I26800001K
 R463I315000M2K
 F861A0224K310A
 F861KJ223K310A