

Guiding

TEMPERATURE COMPENSATING CAPACITORS

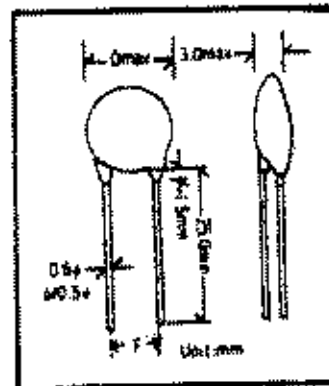
Part Code Designation

Example : CCU 05 NPO 120J L45AE

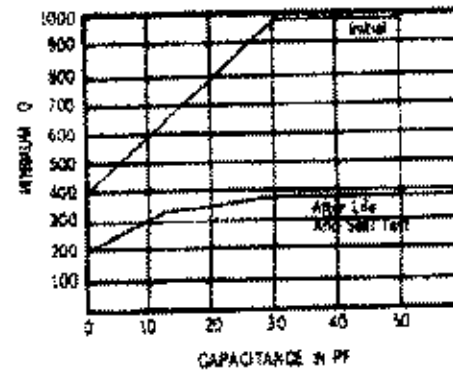
50 - 500 WVDC
EIA RS 198 . CLASS 1
JIS C 6423 . TYPE I

PUR Dept. P.1

CHARACTERISTICS	
Operating Temperature Range	-25°C to 85°C
Capacitance	Within tolerance at 1MHZ, 1.0V and 25°C.
Minimum Capacitance Tolerance	0.5 to 10PF : +0.25PF, Above 10PF : +5%
Rated Voltage	50, 100, 500 VDC
Test Voltage	2.5 times rated voltage for 1.5 sec
Insulation Resistance	10000MΩ min at WVDC
Temperature Coefficient	As shown in the table and curves.
Q Factor	See min Q chart.
Life Test	2 times rated voltage at 85°C for 500 hours.
Lead Wire	#24 or #22 AWG tinned copper wire.
Insulation	Durez coated and high temperature vacuum wax impregnated.
Coating on Lead	1.2mm max. below the tangent line of disc.
Lead Spacing Tolerance	+0.8mm



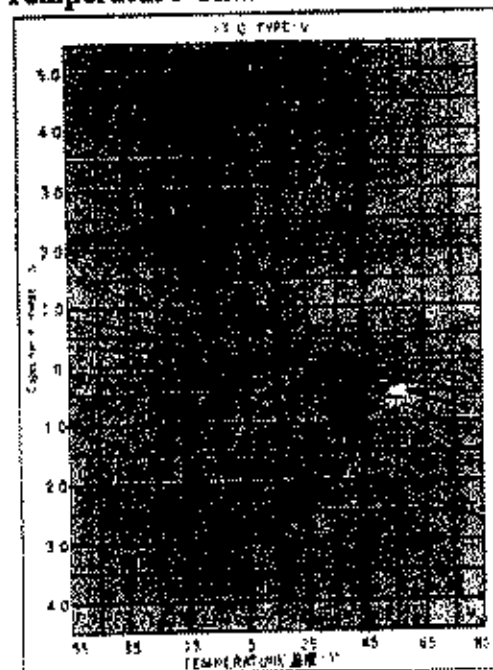
Total 4 pages include this one.



Temperature Coefficient

Code	PPM/°C	T.C.	EIA Code	Color	Symbol
CH	0+60	NPO	COH	Black	C
HH	-30+-60	N33	S1H	Brown	H
LH	-80+-60	N75	U1H	Red	L
PH	-150+-60	N150	P2H	Orange	P
RH	-220+-60	N220	R2H	Yellow	R
SH	-330+-60	N330	S2H	Green	S
TH	-470+-60	N470	T2H	Blue	T
UJ	-750+-60	N750	U2J	Violet	U
SL	+350~-1,000	N330	S2L	---	---

Temperature Characteristic Curves



Guiding

BY PASSED & COUPLING CAPACITORS

Part Code Designation

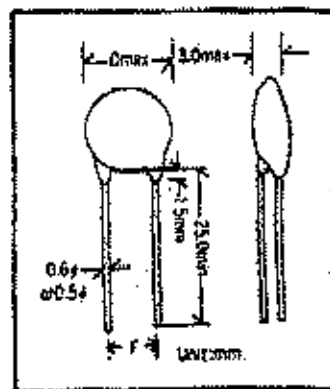
Example : CKC 06 Y5P 102K H46CA

50 ~ 500 WVDC

EIA RS 198 . CLASS 2

JIS C 6422 . TYPE II

CHARACTERISTICS	
Temperature Characteristic	As shown in the table and curves.
Capacitance	Within tolerance at 1KHZ, 1.0V and 25°C
Rated Voltage	50, 100, 500VDC
Test Voltage	2.5 times rated for 1.5 sec.
Insulation Resistance	10000MΩ min at WVDC
Power Factor	2.5% (Z5V 5%) max. at 1KHZ and 25°C
Life Test	2 times working voltage at 85°C for 500 hours.
Lead Wire	#24 or #22 AWG tinned copper wire.
Insulation	Durez coated and high temperature vacuum wax impregnated.
Coating on Lead	1.2mm max. below the tangent line of disc.
Lead Spacing Tolerance	+0.8mm

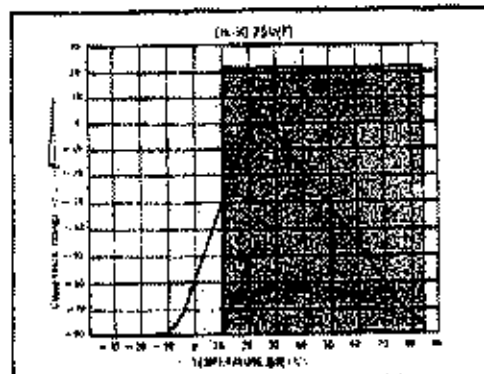
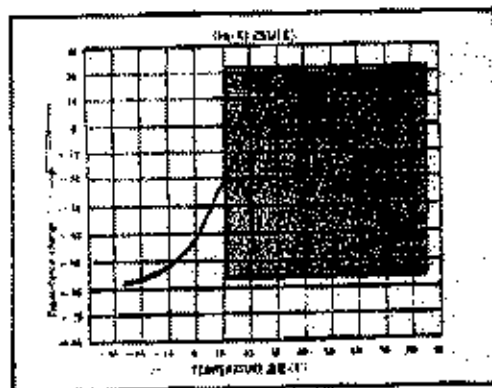
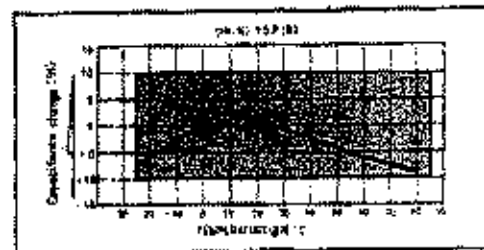
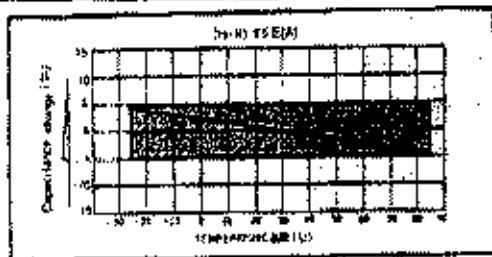


Minimum Capacitance Tolerance

Temperature Char.	Min. Cap. Tolerance
Y5E	+10%
Y5P	+10%
Z5U	+20%
Z5V	+80%-20%

Temperature Characteristics

Code	Temp. Range	Capacitance Change	EIA Code
A	-25°C ~ +85°C	+4.7%	Y5E
B		+10%	Y5P
E	+10°C ~ +85°C	+22% ~ -56%	Z5U
F		+22% ~ -82%	Z5V



CLASS 1. CAPACITANCE TABLE (PF)

W.V.	50 W.V.						
TYPE	CCU05	CCU06	CCU07	CCU08	CCU09	CCU10	CCU11
DØ MAX.	5mm	6mm	7mm	8mm	9mm	10mm	11mm
AVAILABLE LEAD SPACING (F)	2.5mm	2.5mm	2.5mm				
	5mm	5mm	5mm	5mm	5mm	5mm	5mm
NPO	0.5~50	50~82	90~120	130~160	180~220	240~270	300~390
N150	1~35	39~56	68~82	90~120	130~150	160~180	200~240
N220	1~40	41~56	68~82	90~130	140~160	180~200	220~270
N330	10~50	56~75	82~100	110~140	150~180	200~240	250~300
N470	10~50	56~82	90~120	130~160	180~220	240~270	300~330
N750	10~50	56~82	90~120	130~160	180~220	240~270	300~330
SL	50~220	180~270	300~360	390~470	500~680	680~820	1000

CLASS 2. CAPACITANCE TABLE (PF)

W.V.	50 W.V.						
TYPE	CKU05	CKU06	CKU07	CKU08	CKU09	CKU10	CKU11
DØ MAX.	5mm	6mm	7mm	8mm	9mm	10mm	11mm
AVAILABLE LEAD SPACING	2.5mm	2.5mm	2.5mm				
	5mm	5mm	5mm	5mm	5mm	5mm	5mm
Y5E	100 ~ 820	1000 ~ 1200	1500 ~ 1800	2000 ~ 2700	3000 ~ 3300	3900 ~ 4700	4700 ~ 5600
Y5P	560 ~ 2200	2200 ~ 3300	3900 ~ 5000	4700 ~ 6800	6800 ~ 8200	8200 ~ 10000	10000 ~ 12000
Z5U	1500 ~ 5000	5000 ~ 10000	10000 ~ 12000	15000 ~ 18000	18000 ~ 22000	22000 ~ 27000	30000 ~ 33000
Z5V	2700 ~ 10000	10000 ~ 20000	20000 ~ 22000	27000 ~ 33000	39000 ~ 47000	47000	50000 ~ 56000

CLASS 1. CAPACITANCE TABLE (PF)

W.V.	100 W.V.						
TYPE	CCU05	CCU06	CCU07	CCU08	CCU09	CCU10	CCU11
DØ MAX.	5mm	6mm	7mm	8mm	9mm	10mm	11mm
AVAILABLE LEAD SPACING	2.5mm	2.5mm	2.5mm				
	5mm	5mm	5mm	5mm	5mm	5mm	5mm
NPO	0.5~50	50~82	82~110	120~150	180~200	220~250	270~330
N150	1~35	39~56	68~82	100~110	120~150	160~180	200~240
N220	1~40	41~56	68~82	100~120	140~160	180~200	220~250
N330	10~45	50~68	82~100	110~140	150~180	200~240	250~300
N470	10~50	50~82	82~110	120~150	180~200	220~250	270~330
N750	10~50	50~82	82~110	120~150	180~220	220~250	270~330
SL	50~150	180~240	250~360	390~470	500~680	680~820	1000

CLASS 2. CAPACITANCE TABLE (PF)

W.V.	100 W.V.						
TYPE	CKU05	CKU06	CKU07	CKU08	CKU09	CKU10	CKU11
DØ MAX.	5mm	6mm	7mm	8mm	9mm	10mm	11mm
AVAILABLE LEAD SPACING	2.5mm	2.5mm	2.5mm				
	5mm	5mm	5mm	5mm	5mm	5mm	5mm
YSE	100 ~ 820	820 ~ 1200	1500 ~ 1800	2000 ~ 2700	3000 ~ 3600	3900 ~ 4700	4700 ~ 5600
Y5P	560 ~ 1800	2000 ~ 2700	3300 ~ 3900	4700 ~ 5600	6800	8200 ~ 10000	10000 ~ 12000
Z5U	1500 ~ 5000	5000 ~ 8200	10000	12000 ~ 15000	18000 ~ 20000	22000 ~ 27000	30000 ~ 33000
Z5V	2700 ~ 8200	10000 ~ 12000	15000 ~ 20000	22000 ~ 27000	30000 ~ 33000	39000 ~ 47000	50000 ~ 56000