

WORLD CLASSES



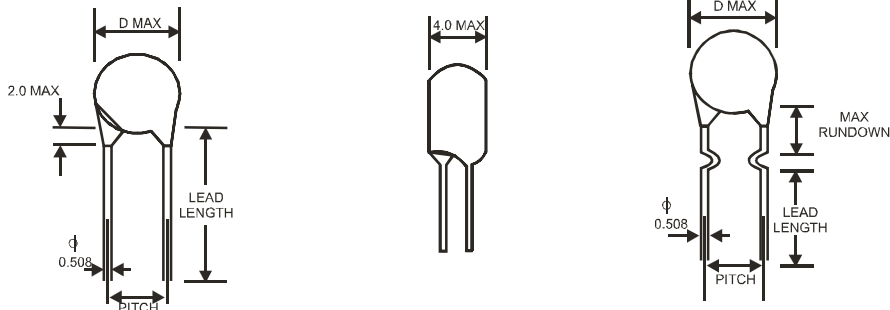
SINGLE LAYER CERAMIC CAPACITORS

(LCSO, CACT, C-DOT Approved)



**GUJARAT POLY
ELECTRONICS LIMITED**
(Formerly Known as GUJARAT POLY-AVX ELECTRONICS LTD.)

Style & Dimensions



NOTE : All dimensions are in mm

How to order

PART NUMBER EXPLANATION				EXAMPLE : P K 0 8 5 E 1 0 4 Z A C				
P	K	0 8	5	E	104	Z	A	C
↓	↓	DIA	VOLTAGE	DIELECTRIC	CAPACITANCE CODE	TOLERANCE	COATING	PACKING
P FOR ≤ 500 V & H FOR 1KVDC 2KVDC 3KVDC	K	05-5 mm 06-6 mm 07-7 mm 08-8 mm 09-9 mm 10-10 mm 12-12 mm 14-14 mm 16-16 mm 18-18 mm	A= 1KV DC G= 2KV DC H=3KV DC 2=200 V DC 3= 25/30V DC 5= 50/63V DC 6= 12/16V DC 7= 500V DC 8=400V AC V=250V AC	A= NPO B= Y5P E= Y5V F= Z5V G= Z5U L= SL U= N750	2 Signf. Digits + No. Of Zeros e.g. 100000 pf =104	D= ± 0.5pf F= ± 1pf J= ± 5% K= ± 10% M= ± 20% S= + 50% - 20% Z= + 80% - 20%	EPOXY COATED & LASER MARKED R ↓ RESIN COATED & STAMP MARKED B ↓ RoHs Compliant Part EPOXY COATED & LASER MARKED	LOOSE A= 3.5mm+1.5/-0 C= 8.1mm+ 2.0/-0 D= 10.0MM +2.0/-0 1= 31MM T= Tape & Reel R= Tape & Box
<p>S = Straight Lead 5.08 mm Pitch (for Dia>=12 mm Pitch=7.5 mm) K = Kink Lead 5.08 mm Pitch (for Dia>=12 mm Pitch=7.5 mm) T = Straight Lead 2.54 mm Pitch</p>								

Manufacturing Range - Low Voltage

FOR 50V-250V		CLASS - I			CLASS - II			CLASS - III
STYLE	DIELECTRIC →	NPO	N750	SL	Y5P	Z5U	Z5V	Y5V (S.C.)
	DIA-D MAX.	(A)	(U)	(L)	(B)	(G)	(F)	(E)
PK05 / PS05	5 mm	OR5-470	200-560	240-221	101-222	102-682	562-103	103-473
PK06 / PS06	6 mm	510-820	620-820	241-271	242-332	822-103	153	503-683
PK07 / PS07	7 mm	101	910-121	301-431	362-472	153	223	104 (30V)
PK08 / PS08	8 mm	111-151	121-151	471-551	502-682	223	-	104 (50V)
PK09 / PS09	9 mm	181-261	181-201	561-681	822	-	-	224
PK10 / PS10	10 mm	271-331	221-271	751-821	103	-	-	-
PK14 / PS14	14 mm	361-471	-	102	-	-	-	-

FOR 500V		CLASS - I			CLASS - II		
STYLE	DIELECTRIC →	NPO	N750	SL	Y5P	Z5U	Z5V
	DIA-D MAX.	(A)	(U)	(L)	(B)	(G)	(F)
PK06 / PS06	6 mm	1R0-470	1R0-560	200-181	101-152	101-332	472-502
PK08 / PS08	8 mm	510-101	680-101	201-271	182-272	392-682	682-103
PK10 / PS10	10 mm	560-121	121-151	301-331	302-472	822-103	223
PK12 / PS12	12 mm	151	-	-	562-682	223	-
PK14 / PS14	14 mm	-	-	-	822-103	-	-
PK18 / PS18	18 mm	-	-	-	-	-	-



Manufacturing Range - High Voltage

STYLE	HS06	HS07	HS08	HS09	HS10	HS12	HS16	
DIA - D MAX.	6.0 mm	7.0 mm	8.0 mm	9.0 mm	10.0 mm	12.0 mm	16.0 mm	
1 KV	NPO-A	1R0-390	470-680	820	101-121	151	181-221	-
	SL-L	100-101	151-181	221	271	331-391	471	-
	Y5P-B	101-471	561-102	122-152	182	222	272-332	822-103
	Z5U-G	102	152-222	272	332-392	472-562	682-103	-
	Z5V-F	-	-	222	272-332	392-103	153	473
	Y5V-E	102	152-222	272	332-392	472-562	682-103	223
2 KV	NPO-A	1R0-8R0	-	200-390	470-560	682	820	101-121
	SL-L	100-470	560-101	121-151	181	-	221-271	331-561
	Y5P-B	-	101-561	681	821-102	122-152	221-271	272-472
	Z5U-G	-	102-122	152-182	222-272	332	392-562	682-103
	Z5V-F	-	102-182	222	272-332	392-682	822-103	-
	Y5V-E	-	102-182	222	272-332	392-682	822-103	223
3 KV	NPO-A	100	220	-	330-470	-	-	101
	SL-L	100-390	470	560-680	820-101	151	-	-
	Y5P-B	-	-	101-331	471-561	681-102	122-152	-
	Z5U-G	-	-	102	-	-	222-332	-
	Y5V-E	-	102	-	-	-	222-332	472-103

General Specifications of Single Layer Ceramic Capacitor

CLASS →	CLASS - I			CLASS - II			CLASS - III
DIELECTRIC →	NPO (A)	N750 (U)	SL (L)	Y5P (B)	Z5U (G)	Z5V (F)	Y5V (E)
CAPACITANCE TOLERANCE	C,D,F FOR CAP <10 pf J,K, FOR CAP >=10 pf	J, K, M	J, K, M	K, M	M, S, Z	S, Z	M, Z
OPERATING TEMP. RANGE	-25 TO +85 °C	-25 TO +85 °C	-25 TO +85 °C	-25 TO +85 °C	+10 TO +85 °C	+10 TO +85 °C	-25 TO +85 °C
TEMPERATURE CHARACTERISTIC	0 +/-60 ppm / °C	-750 +/-120 ppm / °C	+350~-1000 ppm / °C	+/-10 %	+20 % / -55%	+30 % / -80%	+30 % / -80%
VOLTAGE RATING (VDC)	50 / 63 V 500V	50 / 63 V 500V	50 / 63 V 500V	50 / 63 V 500V	50 / 63 V 500V	50 / 63 V 500V	12/16V, 25/30V & 50/63V
DISSIPATION FACTOR	IF C<30 pF DF<=1/(400+20C)IF C>=30 pF, DF<=0.001	IF C<30 pF DF<=1/(400+20C)IF C>=30 pF, DF<=0.001	DF<=0.001	2.5 % MAX	2.5 % MAX	5 % MAX	7.5 % MAX
MEASURING CONDITION	1MHZ,1Vrms AT 25 °C	1MHZ,1Vrms AT 25 °C	1MHZ,1Vrms AT 25 °C	1MHZ,1Vrms AT 25 °C	1MHZ,1Vrms AT 25 °C	1MHZ,1Vrms AT 25 °C	1KHZ,0.1Vrms AT 25 °C
I. R. AT RATED VOLTAGE	>= 10 G.Ω	>= 10 G.Ω	>= 10 G.Ω	>= 10 G.Ω	>= 10 G.Ω	>= 10 G.Ω	>= 1 M.Ω
DIELECTRIC STRENGTH (OF RATED V DC)	250 %	250 %	250 %	250 %	250 %	250 %	150 %

General Specifications of High Voltage Ceramic Capacitor

CLASS →	CLASS - I	CLASS - II			
DIELECTRIC →	SL (L)	Y5P (B)	Z5U (G)	Z5V (F)	Y5V (E)
CAPACITANCE TOLERANCE	K, M	K, M	M, Z	Z	M, Z
OPERATING TEMP. RANGE	-25 TO +85 °C	-25 TO +85 °C	+10 TO +85 °C	+10 TO +85 °C	-25 TO +85 °C
TEMPERATURE CHARACTERISTIC	+350~-1000 ppm/° C	+/-10 %	+20 % / -55 %	+30 % / -80%	+30 % / -80%
VOLTAGE RATING (VDC)	1KV ~ 3KVDC	1KV ~ 3KVDC	1KV ~ 3KVDC	1KV ~ 3KVDC	1KV ~ 3KVDC
DISSIPATION FACTOR	0.1 % MAX	2.5 % MAX	2.5 % MAX	5 % MAX	5 % MAX
MEASURING CONDITION	1MHZ,1Vrms	1KHZ,1Vrms	1KHZ,1Vrms	1KHZ,1Vrms	1KHZ,1Vrms
I. R. AT 1 KV DC	>= 10 G.Ω	>= 10 G.Ω	>= 10 G.Ω	>= 10 G.Ω	>= 10 G.Ω
DIELECTRIC STRENGTH (OF RATED VOLTAGE)	150 %	150 %	150 %	150 %	150 %



PLANT VIEW

GUJARAT POLY ELECTRONICS LIMITED (GPEL), Formerly Known as GUJARAT POLY-AVX ELECTRONICS LTD. has been promoted jointly by Polychem Ltd. and Gujarat Industrial Investment Corporation Limited (GIIC).

POLYCHEM LIMITED is a pioneer in the production of Plastics in India.

GPEL manufactures Multilayer Ceramic Capacitors in Chip and Leaded (Radial & Axial) configurations, Single Layer Ceramic Capacitors. Capacitors are manufactured on highly sophisticated automatic machines.

GPEL standards are set to meet the challenging and steadily increasing demands of the Electronics industry, with the concept of Total Quality Management.

GPEL Capacitors are approved by C-DOT, ITI, RDSO and major OEM's.

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