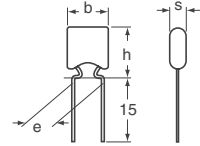




Multilayer Ceramic Capacitors



COG

Features: • Good thermal stability • High insulation resistance • Low dissipation factor • Low inductance
Applications: • Resonant circuit • Timing elements • Coupling and filtering, particularly in RF circuits
Electrical Data: • Dielectric: Class 1 • Operating temperature range: -55°C ~ 125°C

X7R

Features: • High volumetric efficiency • Non-linear capacitance change • High insulation resistance • High pulse strength
Applications: • Blocking • Coupling • Decoupling • Interference suppression
Electrical Data: • Standard: EIA • Dielectric: Class 2 • Operating temperature range: -55°C ~ 125°C

Z5U (Y5U)

Features: • Extremely high volumetric efficiency • Non-linear capacitance change • Y5U characteristic is also fulfilled
Applications: • Blocking • Coupling • Decoupling • Interference suppression
Electrical Data: • Standard: EIA • Dielectric: Class 2 • Operating temperature range: -30°C ~ 85°C

Type/ Tol.	VDC	Cap.	Dimensions (mm)					Digi-Key Part No.	Bulk Pricing			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack	
			h	b	s	e	2.5		1	10	100		10	100	1,000		Qty.	Pricing
COG 5%	100	10pF	5.5	5.0	2.5	2.5	P4837-ND	23	1.58	11.17	495-1000-1-ND	1.47	11.21	77.63	495-1000-3-ND	2,500	52.00/M	
	100	10pF	5.5	5.0	2.5	5.0	495-3266-ND	23	1.58	11.17	495-3267-1-ND	1.47	11.21	77.63	495-3267-2-ND	2,500	55.00/M	
	100	10pF	5.5	5.0	2.5	2.5	—	—	—	495-3292-1-ND	1.47	11.21	77.63	495-3292-2-ND	2,500	55.00/M		
	100	15pF	5.5	5.0	2.5	2.5	P4839-ND	23	1.58	11.17	—	—	—	—	—	—		
	100	15pF	5.5	5.0	2.5	2.5	—	—	—	495-3296-1-ND	1.47	11.21	77.63	495-3296-2-ND	2,500	55.00/M		
	100	18pF	5.5	5.0	2.5	2.5	P4840-ND	23	1.58	11.17	—	—	—	—	—	—		
	100	18pF	5.5	5.0	2.5	2.5	—	—	—	495-3297-1-ND	1.47	11.21	77.63	495-3297-2-ND	2,500	55.00/M		
	100	22pF	5.5	5.0	2.5	2.5	P4841-ND	23	1.58	11.17	495-1004-1-ND	1.47	11.21	77.63	495-1004-3-ND	2,500	52.00/M	
	100	22pF	5.5	5.0	2.5	5.0	495-3271-ND	23	1.58	11.17	495-3272-1-ND	1.47	11.21	77.63	495-3272-2-ND	2,500	55.00/M	
	100	22pF	5.5	5.0	2.5	2.5	—	—	—	495-3298-1-ND	1.47	11.21	77.63	495-3298-2-ND	2,500	55.00/M		
COG 5%	100	22pF	5.5	5.0	2.5	2.5	—	—	—	495-3299-1-ND	1.47	11.21	77.63	495-3299-2-ND	2,500	55.00/M		
	100	27pF	5.5	5.0	2.5	2.5	P4842-ND	23	1.58	11.17	—	—	—	—	—	—		
	100	27pF	5.5	5.0	2.5	2.5	—	—	—	495-3302-1-ND	1.47	11.21	77.63	495-3302-2-ND	2,500	55.00/M		
	100	27pF	5.5	5.0	2.5	2.5	P4843-ND	23	1.58	11.17	495-1006-1-ND	1.47	11.21	77.63	495-1006-3-ND	2,500	52.00/M	
	100	33pF	5.5	5.0	2.5	2.5	495-3274-ND	23	1.58	11.17	495-3275-1-ND	1.47	11.21	77.63	495-3275-2-ND	2,500	55.00/M	
	100	33pF	5.5	5.0	2.5	2.5	—	—	—	495-3303-1-ND	1.47	11.21	77.63	495-3303-2-ND	2,500	55.00/M		
	100	33pF	5.5	5.0	2.5	2.5	—	—	—	495-3304-1-ND	1.47	11.21	77.63	495-3304-2-ND	2,500	55.00/M		
	100	47pF	5.5	5.0	2.5	2.5	P4845-ND	19	1.32	9.30	495-1008-1-ND	1.47	11.21	77.63	495-1008-3-ND	2,500	52.00/M	
	100	47pF	5.5	5.0	2.5	5.0	495-3277-ND	20	1.37	9.68	495-3278-1-ND	1.47	11.21	77.63	495-3278-2-ND	2,500	55.00/M	
	100	47pF	5.5	5.0	2.5	2.5	—	—	—	495-3307-1-ND	1.23	9.39	65.03	495-3307-2-ND	2,500	46.00/M		
COG 5%	100	68pF	5.5	5.0	2.5	2.5	P4847-ND	23	1.58	11.17	—	—	—	—	—	—		
	100	68pF	5.5	5.0	2.5	2.5	—	—	—	495-3310-1-ND	1.47	11.21	77.63	495-3310-2-ND	2,500	55.00/M		
	100	100pF	5.5	5.0	2.5	2.5	P4849-ND	23	1.58	11.17	—	—	—	—	—	—		
	100	100pF	5.5	5.0	2.5	5.0	495-3268-ND	23	1.58	11.17	495-3269-1-ND	1.47	11.21	77.63	495-3269-2-ND	2,500	55.00/M	
	100	100pF	5.5	5.0	2.5	2.5	—	—	—	495-3293-1-ND	1.47	11.21	77.63	495-3293-2-ND	2,500	55.00/M		
	100	220pF	5.5	5.0	2.5	5.0	—	—	—	495-1014-1-ND	1.80	13.75	95.18	495-1014-3-ND	2,500	63.00/M		
	100	220pF	5.5	5.0	2.5	5.0	—	—	—	495-3273-1-ND	1.80	13.75	95.18	495-3273-2-ND	2,500	68.00/M		
	100	220pF	5.5	5.0	2.5	2.5	495-3300-ND	29	1.94	13.67	495-3301-1-ND	1.80	13.75	95.18	495-3301-2-ND	2,500	68.00/M	
	100	330pF	5.5	5.0	2.5	5.0	—	—	—	495-3276-1-ND	1.80	13.75	95.18	495-3276-2-ND	2,500	68.00/M		
	100	330pF	5.5	5.0	2.5	2.5	495-3305-ND	28	1.93	13.59	495-3306-1-ND	1.80	13.75	95.18	495-3306-2-ND	2,500	68.00/M	
COG 5%	100	470pF	5.5	5.0	2.5	5.0	—	—	—	495-1017-1-ND	1.80	13.75	95.18	495-1017-3-ND	2,500	63.00/M		
	100	470pF	5.5	5.0	2.5	5.0	—	—	—	495-3279-1-ND	1.80	13.75	95.18	495-3279-2-ND	2,500	68.00/M		
	100	470pF	5.5	5.0	2.5	2.5	495-3308-ND	28	1.93	13.59	495-3309-1-ND	1.80	13.75	95.18	495-3309-2-ND	2,500	68.00/M	
	100	680pF	5.5	5.0	2.5	5.0	P4859-ND	23	1.73	12.35	—	—	—	—	—	—		
	100	680pF	5.5	5.0	2.5	5.0	—	—	—	495-3280-1-ND	1.80	13.75	95.18	495-3280-2-ND	2,500	68.00/M		
	100	1000pF	5.5	5.0	2.5	5.0	—	—	—	495-3270-1-ND	2.41	18.43	127.58	495-3270-2-ND	2,500	91.00/M		
	100	1000pF	5.5	5.0	2.5	2.5	495-3294-ND	38	2.60	18.34	495-3295-1-ND	2.41	18.43	127.58	495-3295-2-ND	2,500	91.00/M	
	100	2200pF	6.5	5.0	2.5	5.0	—	—	—	495-1024-1-ND	4.06	31.07	215.10	495-1024-3-ND	2,500	143.00/M		
	50	100pF	5.5	5.0	2.5	2.5	—	—	—	495-3369-1-ND	4.06	31.07	215.10	495-3369-2-ND	2,500	153.00/M		
	50	100pF	5.5	5.0	2.5	2.5	P4925-ND	28	1.93	13.59	495-1025-1-ND	1.80	13.75	95.18	495-1025-3-ND	2,500	63.00/M	
COG 5%	50	100pF	5.5	5.0	2.5	5.0	495-3281-ND	28	1.93	13.59	495-3282-1-ND	1.80	13.75	95.18	495-3282-2-ND	2,500	68.00/M	
	50	100pF	5.5	5.0	2.5	2.5	—	—	—	495-3311-1-ND	1.80	13.75	95.18	495-3311-2-ND	2,500	68.00/M		
	50	220pF	5.5	5.0	2.5	2.5	—	—	—	495-1029-1-ND	1.80	13.75	95.18	495-1029-3-ND	2,500	63.00/M		
	50	220pF	5.5	5.0	2.5	5.0	495-3284-ND	28	1.93	13.59	495-3285-1-ND	1.80	13.75	95.18	495-3285-2-ND	2,500	68.00/M	
	50	220pF	5.5	5.0	2.5	2.5	—	—	—	495-3314-1-ND	1.80	13.75	95.18	495-3314-2-ND	2,500	68.00/M		
	50	330pF	5.5	5.0	2.5	5.0	495-3287-ND	28	1.93	13.59	495-3288-1-ND	1.80	13.75	95.18	495-3288-2-ND	2,500	68.00/M	
	50	470pF	5.5	5.0	2.5	2.5	—	—	—	495-1032-1-ND	1.80	13.75	95.18	495-1032-3-ND	2,500	63.00/M		
	50	470pF	5.5	5.0	2.5	5.0	495-3289-ND	28	1.93	13.59	495-3290-1-ND	1.80	13.75	95.18	495-3290-2-ND	2,500	68.00/M	
	50	470pF	5.5	5.0	2.5	2.5	—	—	—	495-3317-1-ND	1.80	13.75	95.18	495-3317-2-ND	2,500	68.00/M		
	50	820pF	5.5	5.0	2.5	5.0	—	—	—	495-1035-1-ND	1.70	13.00	90.00	495-1035-3-ND	2,500	60.00/M		
COG 5%	50	820pF	5.5	5.0	2.5	5.0	—	—	—	495-3291-1-ND	1.70	13.00	90.00	495-3291-2-ND	2,500	64.00/M		
	50	1000pF	5.5	5.0	2.5	5.0	P4937-ND	25	1.88	13.40	495-1036-1-ND	1.94	14.82	102.60	495-1036-3-ND	2,500	68.00/M	
	50	1000pF	5.5	5.0	2.5	5.0	—	—	—	495-3283-1-ND	1.94	14.82	102.60	495-3283-2-ND	2,500	73.00/M		
	50	1000pF	5.5	5.0	2.5	2.5	495-3312-ND	31	2.09	14.74	495-3313-1-ND	1.94	14.82	102.60	495-3313-2-ND	2,500	73.00/M	
	50	2200pF	5.5	5.0	2.5	5.0	P4941-ND	35	2.59	18.53	—	—	—	—	—	—		
	50	2200pF	5.5	5.0	2.5	5.0	—	—	—	495-3286-1-ND	2.69	20.57	142.43	495-3286-2-ND	2,500	101.00/M		
	50	2200pF	5.5	5.0	2.5	2.5	495-3315-ND	43	2.91	20.49	495-3316-1-ND	2.69	20.57	142.43	495-3316-2-ND	2,500	101.00/M	
	50	3300pF	6.5	5.0	2.5	5.0	P4943-ND	42	3.12	22.91	495-1042-1-ND	3.54	27.07	187.43	495-1042-3-ND	2,500	125.00/M	
	50	3300pF	6.5	5.0	2.5	5.0	—	—	—	495-3371-1-ND	3.54	27.07	187.43	495-3371-2-ND	2,500	133.00/M		
	50	3300pF	6.5	5.0	2.5	2.5	—	—	—	495-3378-1-ND	3.54	27.07	187.43	495-3378-2-ND	2,500	133.00/M		
COG 5%	50	3900pF	6.5	5.0	2.5	5.0	495-3372-ND	56	3.80	26.81	495-3373-1-ND	3.54	27.07	187.43	495-3373-2-ND	2,500	133.00/M	
	50	4700pF	6.5	5.0	2.5	5.0	—	—	—	495-3374-1-ND	4.53	34.68	240.08	495-3374-2-ND	2,500	171.00/M		
	50	4700pF	6.5	5.0	2.5	2.5	495-3379-ND	72	4.87	34.32	495-3380-1-ND	4.53	34.68	240.08				



Multilayer Ceramic Capacitors (Cont.)



Type/ Tot.	VDC	Cap.	Dimensions (mm)				Digi-Key Part No.	Bulk Pricing			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack	
			h	b	s	e		1	10	100		10	100	1,000		Qty.	Pricing
X7R 10%	100	22000pF	6.5	5.0	2.5	5.0	495-3386-ND	.36	2.43	17.16	495-3387-1-ND	2.27	17.32	119.93	495-3387-2-ND	2,500	85.00/M
	100	22000pF	6.5	5.0	2.5	5.0	—	—	—	—	495-3388-1-ND	2.27	17.32	119.93	495-3388-2-ND	2,500	85.00/M
	100	47000pF	6.5	5.0	2.5	2.5	P4908-ND	.35	2.59	18.53	—	—	—	—	—	—	
	100	47000pF	6.5	5.0	2.5	5.0	495-3389-ND	.43	2.89	20.38	495-3390-1-ND	2.69	20.57	142.43	495-3390-2-ND	2,500	101.00/M
	100	47000pF	6.5	5.0	2.5	2.5	—	—	—	—	495-3405-1-ND	2.69	20.57	142.43	495-3405-2-ND	2,500	101.00/M
	100	.1µF	6.5	5.0	2.5	2.5	P4910-ND	.48	3.50	25.03	495-1060-1-ND	3.63	27.79	192.38	495-1060-3-ND	2,500	128.00/M
	100	.1µF	6.5	5.0	2.5	5.0	495-3382-ND	.58	3.90	27.53	495-3383-1-ND	3.63	27.79	192.38	495-3383-2-ND	2,500	137.00/M
	100	.1µF	6.5	5.0	2.5	5.0	—	—	—	—	495-3384-1-ND	3.63	27.79	192.38	495-3384-2-ND	2,500	137.00/M
	100	.1µF	6.5	5.0	2.5	2.5	—	—	—	—	495-3400-1-ND	3.63	27.79	192.38	495-3400-2-ND	2,500	137.00/M
	100	.15µF	6.5	5.0	2.5	5.0	P4911-ND	.48	3.58	26.27	495-1061-1-ND	4.06	31.07	215.10	495-1061-3-ND	2,500	143.00/M
Z5U	50	.15µF	6.5	5.0	2.5	5.0	—	—	—	495-3385-1-ND	4.06	31.07	215.10	495-3385-2-ND	2,500	153.00/M	
	50	.15µF	6.5	5.0	2.5	2.5	—	—	—	495-3401-1-ND	4.06	31.07	215.10	495-3401-3-ND	2,500	152.96/M	
	50	3300pF	5.5	5.0	2.5	5.0	495-3338-ND	.27	1.84	12.95	495-3339-1-ND	1.70	13.00	90.00	495-3339-2-ND	2,500	64.00/M
	50	4700pF	5.5	5.0	2.5	2.5	—	—	—	495-1063-1-ND	1.70	13.00	90.00	495-1063-3-ND	2,500	60.00/M	
	50	4700pF	5.5	5.0	2.5	5.0	—	—	—	495-3340-1-ND	1.70	13.00	90.00	495-3340-2-ND	2,500	64.00/M	
	50	10000pF	5.5	5.0	2.5	2.5	P4922-ND	.27	1.84	12.95	495-1065-1-ND	1.70	13.00	90.00	495-1065-3-ND	2,500	60.00/M
	50	10000pF	5.5	5.0	2.5	5.0	495-3335-ND	.27	1.84	12.95	495-3336-1-ND	1.70	13.00	90.00	495-3336-2-ND	2,500	64.00/M
	50	10000pF	5.5	5.0	2.5	2.5	—	—	—	495-3347-1-ND	1.70	13.00	90.00	495-3347-2-ND	2,500	64.00/M	
	50	10000pF	5.5	5.0	2.5	2.5	—	—	—	495-3348-1-ND	1.70	13.00	90.00	495-3348-2-ND	2,500	64.00/M	
	50	22000pF	5.5	5.0	2.5	2.5	P4953-ND	.28	1.93	13.59	495-1067-1-ND	1.80	13.75	95.18	495-1067-3-ND	2,500	63.00/M

◆ RoHS Compliant † Bulk parts have 30mm lead length ‡ Tape and Reel § 20% tolerance Δ 10% tolerance

AVX TPC Epoxy Coated AC and Switch Mode Ceramic Disc Capacitors



These capacitors are made of a new dielectric compound specially developed for AC or switch mode circuits that can generate dielectric heat, which is the limiting factor on other ceramic disc capacitors.

This series adds the advantages of Class 1 capacitors (low loss factor) with the advantages of Class 2 capacitors (small size and lower cost). These capacitors are epoxy coated, flame retardant class UL94V-0. They meet the standards of the telecom and data processing industry. They are particularly suited for TV deflection and power supply circuits.

- Specifications:**
- Insulation Resistance @ 500V: ≥10GΩ
 - Operating Temperature: -40°C ~ 125°C

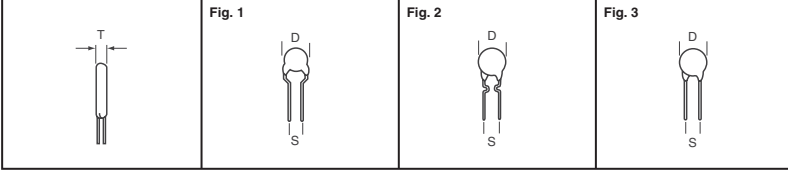


Fig.	VDC	Cap. (pF)	Temp. Coefficient	Tolerance (%)	Dimension (mm)			Digi-Key Part No.	Cut Tape Pricing			Digi-Key Part No.	Ammo Pack		AVX Part No.
					D	S	T		1	10	100		Qty.	Pricing	
1	1000	2200	YSP	±10	13	5	6	478-4287-1-ND	—	6.82	40.30	478-4287-3-ND	1,500	112.00/M	6LR222KNJCM
2	220	220	YSP	±10	6	7.5	4	478-4291-ND	.17	1.58	11.38	—	—	—	6LS221KRCCT
1	220	220	YSP	±10	7	5	4	478-4290-1-ND	—	7.81	46.15	478-4290-3-ND	1,500	128.00/M	6LS221KNDCEM
1	270	270	YSP	±10	7	5	4	478-4292-1-ND	—	4.07	24.05	478-4292-3-ND	1,500	67.00/M	6LS271KNDCEM
1	330	330	YSP	±10	8	5	4	478-4293-1-ND	—	8.91	52.65	478-4293-3-ND	1,500	146.00/M	6LS331KNECM
3	470	470	YSP	±10	9	7.5	5	478-4294-ND	.27	2.52	18.20	—	—	—	6LS471KBFCT
1	470	470	YSP	±10	9	5	5	478-4295-1-ND	—	10.78	63.70	478-4295-3-ND	1,500	176.00/M	6LS471KNFCM
3	1000	1000	YSU	±20	8	7.5	4	478-4283-ND	.22	2.07	14.95	—	—	—	67S102MBECA
3	1000	1000	YSP	±10	11	7.5	5	478-4288-ND	.30	2.84	20.48	—	—	—	6LS102KBHCT
1	1000	1000	YSP	±10	11	5	5	478-4289-1-ND	—	11.88	70.20	478-4289-3-ND	1,500	194.00/M	6LS102KNHCEM
3	2200	2200	YSU	-20/+50	9	5	5	478-4284-1-ND	—	4.84	28.60	478-4284-3-ND	1,500	79.00/M	67S222SAFC1
3	2200	2200	YSU	-20/+50	9	5	5	478-4285-1-ND	—	9.13	53.95	478-4285-3-ND	1,500	149.00/M	67S222SAFC6
3	10000	10000	YSV	-20/+50	11	10	5	478-4286-1-ND	—	12.96	76.57	478-4286-3-ND	1,500	212.00/M	68S103SCHCK

† Bulk

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

More Product Available Online: www.digikey.com