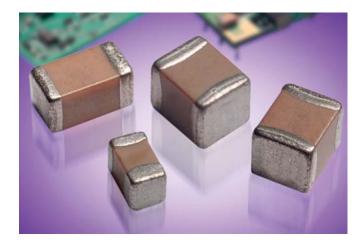
Y5V Dielectric

General Specifications

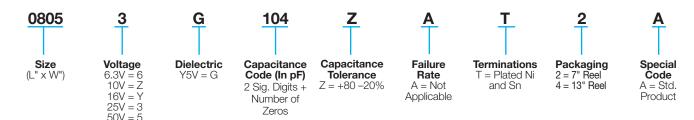


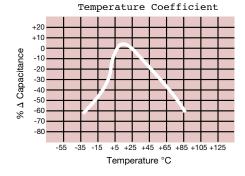
Y5V formulations are for general-purpose use in a limited temperature range. They have a wide temperature characteristic of +22% -82% capacitance change over the operating temperature range of -30°C to +85°C.

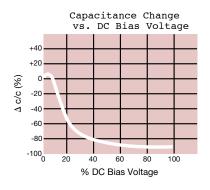
These characteristics make Y5V ideal for decoupling applications within limited temperature range.

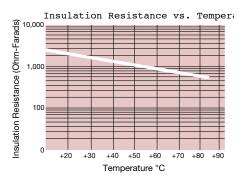


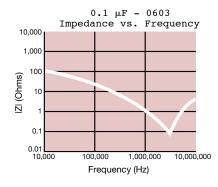
PART NUMBER (see page 2 for complete part number explanation)

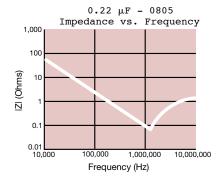


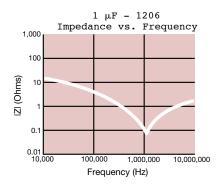












Y5V Dielectric

Specifications and Test Methods

Parame	ter/Test	Y5V Specification Limits	Measuring Conditions							
	perature Range	-30°C to +85°C	Temperature Cycle Chamber							
Capac	itance	Within specified tolerance								
		≤ 5.0% for ≥ 50V DC rating	Freq.: 1.0 kHz ± 10%							
Dissipation	on Factor	≤ 7.0% for 25V DC rating	Voltage: 1.0Vrms ± .2V							
		≤ 9.0% for 16V DC rating	For Cap > 10 μF, 0.5Vrms @ 120Hz							
		≤ 12.5% for ≤ 10V DC rating	01 1 1 1							
Insulation	Resistance	10,000MΩ or 500MΩ - μF,	Charge device with rated voltage for 120 ± 5 secs @ room temp/humidity							
		whichever is less								
Dielectric	Strength	No breakdown or visual defects	Charge device with 300% of rated voltage for 1-5 seconds, w/charge and discharge current limited to 50 mA (max)							
	Appearance	No defects	Deflection							
	Capacitance	≤ ±30%	Test Time: 30 seconds							
Resistance to	Variation			1mm/sec						
Flexure Stresses	Dissipation Factor	Meets Initial Values (As Above)								
	Insulation Resistance	≥ Initial Value x 0.1	90 mm —							
Solda	rahility	≥ 95% of each terminal should be covered	Dip device in eutectic solder at 230 ± 5°C							
Solderability		with fresh solder	for 5.0 ± 0.0	.5 seconds						
	Appearance	No defects, <25% leaching of either end terminal								
Resistance to Solder Heat	Capacitance	≤ ±20%								
	Variation Dissipation		Dip device in eutectic	solder at 260°C for 60						
	Factor	Meets Initial Values (As Above)	seconds. Store at room temperature for 24 \pm 2 hours before measuring electrical properties.							
	Insulation									
	Resistance	Meets Initial Values (As Above)								
	Dielectric									
	Strength	Meets Initial Values (As Above)								
	Appearance	No visual defects	Step 1: -30°C ± 2°	30 ± 3 minutes						
	Capacitance	≤ ±20%	Step 2: Room Temp	≤ 3 minutes						
	Variation									
Thermal Shock	Dissipation	Meets Initial Values (As Above)	Step 3: +85°C ± 2°	30 ± 3 minutes						
	Factor									
	Insulation Resistance	Meets Initial Values (As Above)	Step 4: Room Temp	≤ 3 minutes						
	Dielectric		Repeat for 5 cycles and measure after							
	Strength	Meets Initial Values (As Above)	24 ±2 hours at room temperature							
	Appearance	No visual defects	Charge device with twice rated voltage in							
	Capacitance	≤ ±30%								
	Variation	3 10070	test chamber set at 85°C ± 2°C							
	Dissipation	≤ Initial Value x 1.5 (See Above)	for 1000 hou	for 1000 hours (+48, -0)						
Load Life	Factor	2 milar value // 110 (000 / 100 vo)	Dama ay a fuana ta at ab	a a mala a u a mala ata la ilima						
	Insulation	≥ Initial Value x 0.1 (See Above)	Remove from test chamber and stabilize at room temperature for 24 ± 2 hours							
	Resistance Dielectric	,	before measuring.							
	Strength	Meets Initial Values (As Above)	DOIOIG III	oacai ii ig.						
Load Humidity	Appearance	No visual defects	0							
	Capacitance	≤ ±30%	Store in a test chamb							
	Variation	≥ ±3U70	85% ± 5% relative humidity for 1000 hours							
	Dissipation	≤ Initial Value x 1.5 (See above)	(+48, -0) with rated voltage applied. Remove from chamber and stabilize at room temperature and humidity for							
	Factor	≥ II III.ai value x 1.3 (See abuve)								
	Insulation	≥ Initial Value x 0.1 (See Above)								
	Resistance		24 ± 2 hours before measuring.							
	Dielectric Strength	Meets Initial Values (As Above)		<u> </u>						
	Suengui	` ′								

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Y5V Dielectric

Capacitance Range

PREFERRED SIZES ARE SHADED

									<u></u>					ш	1									
SIZE	=	0201		0402			0603				0805				1206				1210					
Soldering Reflow Only		Reflow/Wave				Reflow/Wave				Reflow/Wave				Reflow/Wave				Reflow Only						
Packag	ging All Paper		All Paper				All Paper				Paper/Embossed				Paper/Embossed				Paper/Embossed					
(L) Length	mm (in.)		± 0.09 ± 0.004)	1.00 ± 0.10 (0.040 ± 0.004)			1.60 ± 0.15 (0.063 ± 0.006)					2.01 ± (0.079 ±			3.20 ± 0.20 (0.126 ± 0.008)				3.20 ± 0.20 (0.126 ± 0.008)					
(W) Width	mm (in.)	(0.011	± 0.09 ± 0.004)	0.50 ± 0.10 (0.020 ± 0.004)				.81 ± 0.15 (0.032 ± 0.006)				1.25 ± 0.20 (0.049 ± 0.008)				1.60 ± 0.20 (0.063 ± 0.008)				2.50 ± 0.20 (0.098 ± 0.008)				
(t) Terminal	mm (in.)	(0.006	± 0.05 ± 0.002)		(0.0	0.25 ± 0.15 (0.010 ± 0.006)			0.35 ± 0.15 (0.014 ± 0.006)			0.50 ± 0.25 (0.020 ± 0.010)				0.50 ± 0.25 (0.020 ± 0.010)				.50 ± 0.25 (0.020 ± 0.010)				
	WVDC	6.3	10	6	10	16	25	50	10	16	25	50	10	16	25	50	10	16	25	50	10	16	25	50
Cap (pF)	820 1000 2200		A A																		ا 			•
Cap (µF)	4700 0.010 0.022	A A	A A																				\sum	T
	0.047 0.10 0.22	А			С	C				G	G	G				K				1 1	Ì	₹	1	ı
	0.33 0.47 1.0			С	С	С			G	G G G	G			N	N	N		М	М	М				N
	2.2	_			C				J	Ŭ.				N	N		_		K	0	_			
	4.7								J				N	N	N		l	Р	Q	Q		N	N	
	10.0												N	P			Q	Q	X		Χ	Q	Q	
	22.0 47.0																Q				Х	Z		
	WVDC	6.3	10	6	10	16	25	50	10	16	25	50	10	16	25	50	10	16	25	50	10	16	25	50
SIZE		0201			0402				0603			0805				1206				1210				
•																•								
Letter	А		0	E		G	J		K		М	N	Р			Q			Υ					
Max.	0.33		56	0.71		0.90	0.9		1.02		1.27	1.40		1.52		.78	2.29		2.54		79			
Thickness	(0.013)	3) (0.022)		(0.028	B) (C	(0.035) (0.037)		37)	(0.040) (0.0		.050)	(0.05	5)	5) (0.060) (0.070)		070)	(0.09	90) (0.100) (0.		(0.1	10)			
_		PAPER								EMBOSSED														

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