

Low Profile Chips

Z5U & Y5V Dielectric



PART NUMBER (see page 3 for complete information and options)

1206	3	E	224	Z	A	T	2	T
Size (L" x W")	Voltage 25V = 3	Dielectric Z5U = E Y5V = G	Capacitance Code	Capacitance Tolerance Z = +80/-20%	Failure Rate A = Not Applicable	Terminations T = Plated Ni and Solder	Packaging 2 = 7" Reel 4 = 13" Reel	Thickness T = .026" Max. S = .022" Max. R = .018" Max.

PERFORMANCE CHARACTERISTICS

Capacitance Range	Z5U: .01 – .33 μ F; Y5V: .01 – .47 μ F
Capacitance Tolerances	+80, -20%
Operating Temperature Range	Z5U: +10°C to +85°C; Y5V: -30°C to +85°C
Temperature Characteristic	Z5U: +22%, -56%; Y5V: +22%, -82%
Voltage Ratings	25 VDC
Dissipation Factor 25°C, .5 Vrms, 1kHz	Z5U: 4%; Y5V: 7%
Insulation Resistance	10,000 megohms min. or 1000 M Ω - μ F whichever is less
Dielectric Strength for 5 seconds at 50 mamp max. current	250% of rated VDC
Test Voltage	Z5U: 0.5 $\pm$ 0.2 Vrms Y5V: 1.0 Vrms $\pm$ 0.2 Vrms
Test Frequency	1 KHz

CAPACITANCE VALUES FOR VARIOUS THICKNESSES

Z5U

SIZE	0805	1206	1210
(L) Length MM (in.)	2.01 $\pm$.20 (.079 $\pm$.008)	3.2 $\pm$.2 (.126 $\pm$.008)	3.2 $\pm$.2 (.126 $\pm$.008)
(W) Width MM (in.)	1.25 $\pm$.20 (.049 $\pm$.008)	1.6 $\pm$.2 (.063 $\pm$.008)	2.5 $\pm$.2 (.098 $\pm$.008)
(t) Terminal MM (in.)	.50 $\pm$.25 (.020 $\pm$.010)	.50 $\pm$.25 (.020 $\pm$.010)	.50 $\pm$.25 (.020 $\pm$.010)
(T) Thickness Max. MM (in.)	.46 (.018) .56 (.022) .66 (.026)	.46 (.018) .56 (.022) .66 (.026)	.46 (.018) .56 (.022) .66 (.026)
Cap (μ F)	.01 .012 .015	.01 .012 .015	.01 .012 .015
	.018 .022 .027	.018 .022 .027	.018 .022 .027
	.033 .039 .047	.033 .039 .047	.033 .039 .047
	.056 .068 .082	.056 .068 .082	.056 .068 .082
	.1 .12 .15	.1 .12 .15	.1 .12 .15
	.18 .22 .27	.18 .22 .27	.18 .22 .27
	.33 .39 .47	.33 .39 .47	.33 .39 .47

Orange = Paper Tape

Y5V

SIZE	0805	1206	1210
(L) Length MM (in.)	2.01 $\pm$.20 (.079 $\pm$.008)	3.2 $\pm$.2 (.126 $\pm$.008)	3.2 $\pm$.2 (.126 $\pm$.008)
(W) Width MM (in.)	1.25 $\pm$.20 (.049 $\pm$.008)	1.6 $\pm$.2 (.063 $\pm$.008)	2.5 $\pm$.2 (.098 $\pm$.008)
(t) Terminal MM (in.)	.50 $\pm$.25 (.020 $\pm$.010)	.50 $\pm$.25 (.020 $\pm$.010)	.50 $\pm$.25 (.020 $\pm$.010)
(T) Thickness Max. MM (in.)	.46 (.018) .56 (.022) .66 (.026)	.46 (.018) .56 (.022) .66 (.026)	.46 (.018) .56 (.022) .66 (.026)
Cap (μ F)	.01 .012 .015	.01 .012 .015	.01 .012 .015
	.018 .022 .027	.018 .022 .027	.018 .022 .027
	.033 .039 .047	.033 .039 .047	.033 .039 .047
	.056 .068 .082	.056 .068 .082	.056 .068 .082
	.1 .12 .15	.1 .12 .15	.1 .12 .15
	.18 .22 .27	.18 .22 .27	.18 .22 .27
	.33 .39 .47	.33 .39 .47	.33 .39 .47

Red = Paper Tape