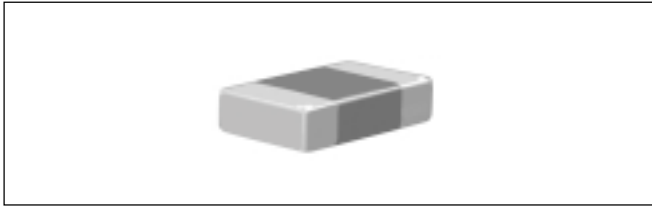


## Multilayer Ceramic Chip Capacitors



### FEATURES

- Low ESR.
- Ideal for decoupling and filtering.
- Wide range of case sizes, voltage ratings and capacitance values.

### GENERAL SPECIFICATIONS

**NOTE:** Electrical characteristics @ + 25°C unless otherwise specified.

**Capacitance Range:** 0.01 $\mu$ F to 15.0 $\mu$ F.

**Temperature Coefficient of Capacitance (TCC):**  
+ 22%, - 56% from + 10°C to + 85°C.

**Dissipation Factor (DF):**  
25V ratings, 3.5% maximum @ 0.5 Vrms and 1kHz.  
50V ratings, 3.0% maximum @ 0.5 Vrms and 1kHz.

### Insulation Resistance (IR):

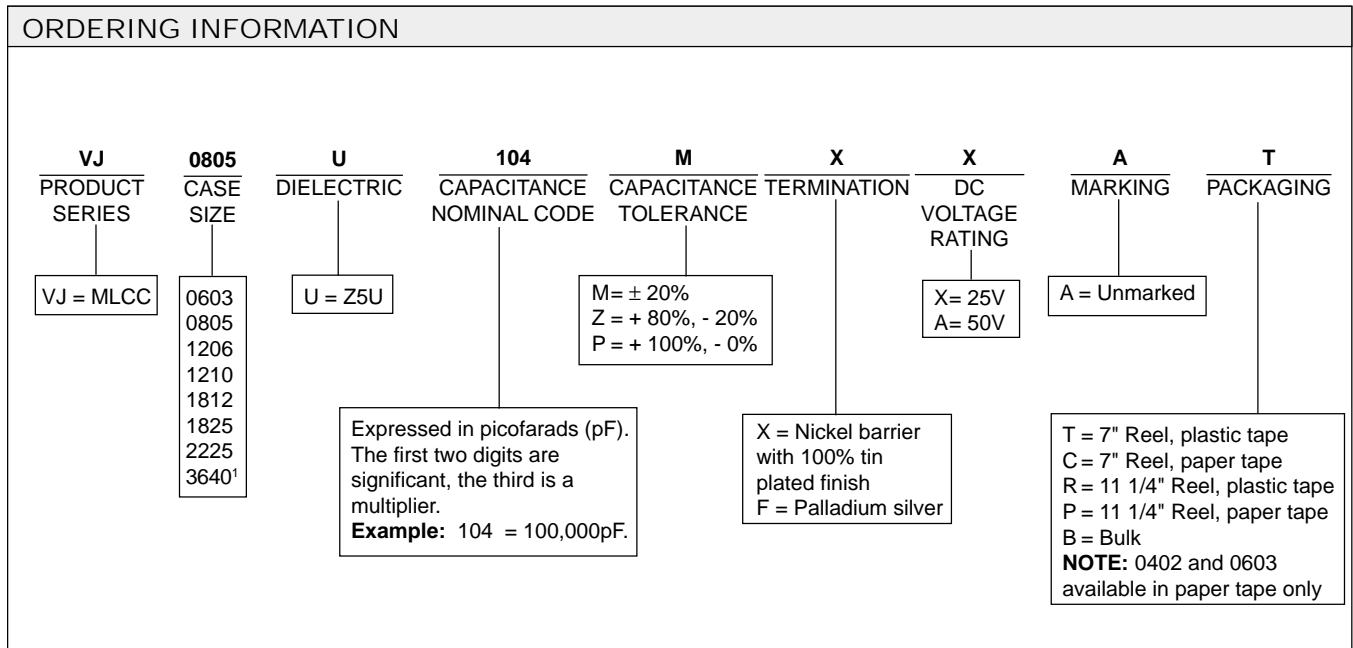
@ + 25°C and rated voltage 10,000 Megohms minimum or 100 ohm-farads, whichever is less.

@ + 125°C and rated voltage 1000 Megohms minimum or 10 ohm-farads, whichever is less.

### Dielectric Withstanding Voltage (DWV):

250% of rated voltage for 5  $\pm$  1 seconds, 50 milliamps current maximum.

**Aging Rate:** 3% maximum per decade.



1 Please contact factory for special considerations regarding 3640 - size components

# Z5U Dielectric

Vishay Vitramon



Z5U DIELECTRIC																	
STYLE		VJ0603		VJ0805		VJ1206		VJ1210		VJ1812*		VJ1825*		VJ2225*		VJ3640*	
E.I.A. TYPE		0603		0805		1206		1210		1812		1825		—		—	
VOLTAGE (Vdc)		25	50	25	50	25	50	25	50	25	50	25	50	25	50	25	50
Capacitance Code	Capacitance $\mu$ F																
103	.010																
123	.012																
153	.015																
183	.018																
223	.022																
273	.027																
333	.033																
393	.039																
473	.047																
563	.056																
683	.068																
823	.082																
104	.10																
124	.12																
154	.15																
184	.18																
224	.22																
274	.27																
334	.33																
394	.39																
474	.47																
564	.56																
684	.68																
824	.82																
105	1.0																
125	1.2																
155	1.5																
185	1.8																
225	2.2																
275	2.7																
335	3.3																
395	3.9																
475	4.7																
565	5.6																
685	6.8																
825	8.2																
106	10.0																
126	12.0																
156	15.0																
186	18.0																

\*See page 61 for soldering recommendations.

Z5U DIELECTRIC - TYPICAL PARAMETERS

