

**HOW TO ORDER**

CODE 1

CODE 2

CODE 3

...

G

B

1 0 2

VOLTAGE RATING (WDC)	
CODE 2	VOLTAGE
A	12 V
B	16 V
C	25 V
* D	50 V
* E	100 V
* F	500 V
* G	1000 V
3B	1.2 KV
3C	1.5 KV
* H2	2 KV
3E	2.5 KV
* H3	3 KV
H4	4 KV
* H5	5 KV
H6	6 KV
H8	8 KV
4A	10 KV
4B	12.5 KV
4C	15 KV
4D	20 KV

\* common voltages used

TEMPERATURE CHARACTERISTICS	
CODE 3	T.C.
A	Y5T
B	Z5F
C	Z5R
D	Z5P
E	Z5U
F	Z5V
G	S2L
H	S3N
J	X5P
K	Z5T
L	Y5P
M	P100
N	NP0
P	N150
Q	N220
R	N330
S	N470
T	N750
U	Y5F
V	Y5V
W	N2200
X	N3300
Y	Y5U
Z	X7R

CAPACITANCE VALUE IN PICOFARADS	
EXAMPLES:	
CAPACITANCE VALUES	CODE 4
0.5 pF	R50
1.0 pF	1R0
1.5 pF	1R5
2.2 pF	2R2
4.7 pF	4R7
6.8 pF	6R8
10 pF	100
22 pF	220
47 pF	470
68 pF	680
100 pF	101
220 pF	221
470 pF	471
680 pF	681
1 nF = 1000 pF	102
2.2 nF = 2200 pF	222
4.7 nF = 4700 pF	472
6.8 nF = 6800 pF	682
0.01 μF = 10 nF = 10 000 pF	103
0.022 μF = 22 nF = 22 000 pF	223
0.1 μF = 100 nF = 100 000 pF	104
1.0 μF = 1000 nF = 1000 000 pF	105

Capacitance Codes, expressed in picofarad (p)  
 First 2 digits are significant  
 Third digit represents the number of zeros  
 "R" indicates decimal for values under 10 pF.

DESCRIPTION FOR THE ABOVE PART #

**GB 102 K 5 F 12**

Ceramic Disc Capacitor:

1000 Volts / Z5F / 1000 pF / K = ±10% Tolerance / Lead Spacing 5.0 mm /  
 Lead Style Figure F on page 40 (Custom Spec.) / Lead Length 12 mm



LEAD LENGTH ONLY USED FOR FIGURE F  
(NON-STANDARD LEAD STYLE CAPACITORS)

... CODE 4

CODE 5

CODE 6

CODE 7

**K**

TOLERANCE	
CODE 5	Tolerance
C	± .25 pF
D	± .50 pF
F	± 1%
G	± 2%
J	± 5%
<b>K</b>	± 10%
M	± 20%
Z	± 80%, -20%
GMV	Guaranteed Min. Value

**5**

LEAD SPACING		
CODE 6	Measure (mm)	Inches
2	2.5	0.1
<b>5</b>	5.0	0.2
6	6.35	0.25
7	7.5	0.3
9	9.5	0.375
12	12.7	0.5

See Page 42, Table I for Standard Specs.

**F**

PACKAGING	LEAD STYLE	
	Figure	CODE 7
BULK	A	A
	B	B
	C	C
	D	D
	E	E
	<b>F</b>	<b>F</b>
	G	G
	H	H
	I	I
TAPED		A
	K	KR
	L	LA
	L	LR

\* See Figures on Page 40 & 41

\* NOTE: Figure F is Non-Standard  
CODE 8 must be specified in mm

**12**

LEAD LENGTH	
Using CODE 7	CODE 8 (in mm)
<b>NON-STANDARD ITEMS</b>	
<b>F</b>	Lead length must be specified in millimeters (mm) since <b>Figure F</b> is the only NON-STANDARD Figure shown on <b>Page 40</b>
<b>STANDARD ITEMS</b>	
A	Lead length specifications for CODE 8 are NOT required for these standard dimensions  see <b>Page 40</b>
B	
C	
D	
E	
G	
H	
I	
KA	see dimensions <b>Page 41</b>
KR	
LA	
LR	

**CODE 9** (only for epoxy coating)

All capacitors are made with brown color (Durez Coating). Upon customer's request add letter "X" at the end of the part number for blue color epoxy coating.

**EXAMPLE FROM PAGE 48**

"TYPE" FOR STANDARD ITEMS

TYPE: GB 471 K

CODE

(1) (2) (3) (4) (5) (6) (7)

PART #

**G** **B** **471** **K**

AS PER CUSTOMER'S REQUIREMENT

EXAMPLES (Fig. F)	
CODE 8	Measure of Lead Length
12	12 mm
28	28 mm
39.5	39.5 mm
57	57 mm