

MULTILAYER CERAMIC CAPACITORS CROSS REFERENCE GUIDE

Chip Size - Quick Reference Chart

DLI	C11AH	C17AH	C22AH	C40AH	C06CF	C11CF	C17CF	C22CF	C40CF	C04UL	C06UL	C08UL	C11UL	C17UL
ATC	100A	100B 100C		100E	600S 600F	700A	700B	700C	700E	600L			800A	800B
AVX	11_M 12_M		2225_A		0603_A	11_A 12_A	13_A 14_A			0402_J		0805_A		
TEMEX	CHA	CHB			R14S	R12S	S42S	2225	CLE	0402	R14S	R15S		
MURATA					GRM18		GRM22			GRM15	GRM18	GRM21		GRM22
JOHANSON					R14			S48		R07	R14	R15		
VISHAY					VJ0603					VJ0402	VJ0603	VJ0805		
PRESIDIO										0402	0603	0805	0505	1010



MLC CROSS REFERENCE GUIDE

2777 Route 20 East, Cazenovia, NY 13035 | Ph.: (315)655-8710 | KCCSales@knowles.com

DLI: C11AH100J-8UN-X0T

C11AH

100

J

8

U

N

X

0

T

SIZE & DIELECTRIC MATERIAL

C11AH = 0.1pF-100pF
C17AH = 0.1pF-1000pF
C40AH = 1pF-2700pF
C11CF = .01pF-100pF
C17CF = .01pF-1000pF
C22CF = 1pF-2700pF
C40CF = 1pF-5100pF
C04UL = 0.1pF-10pF
C06CF = 0.1pF-47pF
C08UL = 0.1pF-100pF
C11UL = 0.1pF-100pF
C17UL = 0.1pF-1000pF

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE

THRID DIGIT =
ADDITIONAL NUMBER OF
ZEROS
R = DECIMAL POINT

EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

TOLERANCE

A = $\pm 0.05pF$
B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
X = GMV
S = SPECIAL

VOLTAGE

5 = 50V
1 = 100V
8 = 150V
6 = 200V
9 = 250V
3 = 300V
4 = 500V
7 = 1000V
A = 1500V
G = 2000V
B = 2500V
D = 3600V
F = 5000V
H = 7200V
S = SPECIAL

TERMINATION

T = Ag TERMINATION, Ni BARRIER LAYER, HEAVY SnPb PLATED SOLDER
U = Ag TERMINATION, Ni BARRIER LAYER, SnPb PLATED SOLDER
S = Ag TERMINATION, Ni BARRIER LAYER, GOLD FLASH
Z = Ag TERMINATION, Ni BARRIER LAYER, Sn PLATED SOLDER
E = Ag TERMINATION, ENHANCED Ni BARRIER LAYER
P** = AgPd TERMINATION
Q = POLYMER TERMINATION, Ni BARRIER LAYER, Sn PLATED SOLDER
Y = POLYMER TERMINATION, Ni BARRIER LAYER, SnPb PLATED SOLDER M**
= POLYMER TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER W** =
Ag TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER
H** = Ag TERMINATION, ENHANCED Cu BARRIER LAYER, Sn PLATED SOLDER
V** = Ag TERMINATION, Cu BARRIER LAYER, SnPb PLATED SOLDER
R** = Ag TERMINATION, Cu BARRIER LAYER, HEAVY SnPb PLATED SOLDER

LEADING

A = AXIAL RIBBON
B = RADIAL RIBBON
C = CENTER RIBBON
D = CUSTOMER DEFINED
E = AXIAL WIRE
F = RADIAL WIRE
N = NONE

TEST CODE

X = COMMERCIAL
Y = REDUCED VISIAL
A = GROUP A
C = GROUP C
D = CUSTOMER
SPECIFIED

MARKING

1 = SINGLE SIDE
2 = DOUBLE SIDE
3 = LARGE SINGLE SIDE
4 = LARGE DOUBLE SIDE
5 = VERTICAL EDGE

PACKAGING

T = TAPE & REEL
V = VERTICAL TAPE
B = BULK
W = WAFFLE PACK
S = SPECIAL

ATC: ATC100A100JW150XB

ATC

100A

100

J

W

150

X

T

ATC Style

SIZE & DIELECTRIC MATERIAL

100A = DLI -C11AH
100B = DLI -C17AH
100C = DLI -C17AH
100E = DLI -C40AH
700A = DLI -C11CF
700B = DLI -C17CF
700C = DLI -C22CF
700E = DLI -C40CF
600L = DLI -C04UL
600S = DLI -C06CF
600F = DLI -C06CF
800A = DLI -C11UL
800B = DLI -C17UL

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE
R = DECIMAL POINT

EXAMPLES:
100 = 10pF
270 = 27pF
2R7 = 2.7pF

TOLERANCE

B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$

TERMINATION

W = DLI U TERMINATION CODE
P = DLI T TERMINATION CODE
T = DLI Z E TERMINATION CODE
WN = DLI V TERMINATION CODE
PN = DLI R TERMINATION CODE
TN = DLI W H TERMINATION CODE
CN = DLI P TERMINATION CODE

VOLTAGE

50 = 50V
100 = 100V
150 = 150V
200 = 200V
250 = 250V
300 = 300V
500 = 500V
1000 = 1000V
1500 = 1500V
2500 = 2500V
3600 = 3600V
7200 = 7200V

MARKING

X = SINGLE
SIDE

PACKAGING

T = TAPE & REEL
TV = VERTICAL TAPE
B = BULK
C = WAFFLE PACK
I = SPECIAL

AVX: AQ11EM100JA1MA

AQ

11_M

E

100

J

A

1

M

A

STYLE

SIZE & DIELECTRIC MATERIAL

11_A = DLI -C11CF
12_A = DLI -C11CF
11_M = DLI -C11AH
12_M = DLI -C11AH
13_A = DLI -C17CF
14_A = DLI -C17CF
0402_J = DLI -C04UL
0603_A = DLI -C06CF
0805_A = DLI -C08UL
2225_A = DLI -C22AH

SPACE DESIGNATES
VOLTAGE CODE

VOLTAGE

5 = 50V
1 = 100V
E = 150V
2 = 200V
9 = 300V
7 = 500V

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE
THRID DIGIT =
ADDITIONAL
NUMBER OF ZEROS
R = DECIMAL POINT

EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

TOLERANCE

B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
N = $\pm 30\%$

FAILURE RATE

A=N/A

TERMINATION

1 = DLI P TERMINATION CODE
7 = DLI S TERMINATION CODE
J = DLI U TERMINATION CODE
T = DLI Z TERMINATION CODE

PACKAGING

B = BULK
3A = 13" REEL
ME = 7" REEL
RE = 13" REEL
WE = WAFFLE PACK

SPECIAL CODE

A=Standard

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DLI: C11AH100J-8UN-X0T

C11AH

SIZE & DIELECTRIC MATERIAL

C11AH= 0.1pF-100pF
C17AH= 0.1pF-1000pF
C40AH= 1pF-2700pF
C11CF= .01pF-100pF
C17CF= .01pF-1000pF
C22CF= 1pF-2700pF
C40CF= 1pF-5100pF
C04UL= 0.1pF-10pF
C06CF= 0.1pF-47pF
C08UL= 0.1pF-100pF
C11UL= 0.1pF-100pF
C17UL= 0.1pF-1000pF

100

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE

THRID DIGIT =
ADDITIONAL NUMBER OF
ZEROS
R = DECIMAL POINT

EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

J

TOLERANCE

A = $\pm 0.05pF$
B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
X = GMV
S = SPECIAL

8

VOLTAGE

5 = 50V
1 = 100V
8 = 150V
6 = 200V
9 = 250V
3 = 300V
4 = 500V
7 = 1000V
A = 1500V
G = 2000V
B = 2500V
D = 3600V
F = 5000V
H = 7200V
S = SPECIAL

U

TERMINATION

T = Ag TERMINATION, Ni BARRIER LAYER, HEAVY SnPb PLATED SOLDER
U = Ag TERMINATION, Ni BARRIER LAYER, SnPb PLATED SOLDER
S = Ag TERMINATION, Ni BARRIER LAYER, GOLD FLASH
Z = Ag TERMINATION, Ni BARRIER LAYER, Sn PLATED SOLDER
E = Ag TERMINATION, ENHANCED Ni BARRIER LAYER
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Y = POLYMER TERMINATION, Ni BARRIER LAYER, SnPb PLATED SOLDER M**
= POLYMER TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER W** =
Ag TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER
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R** = Ag TERMINATION, Cu BARRIER LAYER, HEAVY SnPb PLATED SOLDER

A = AXIAL RIBBON
B = RADIAL RIBBON
C = CENTER RIBBON
D = CUSTOMER DEFINED
E = AXIAL WIRE
F = RADIAL WIRE
N = NONE

N

LEADING

X

TEST CODE

X = COMMERCIAL
Y = REDUCED VISIAL
A = GROUP A
C = GROUP C
D = CUSTOMER
SPECIFIED

0

MARKING

1 = SINGLE SIDE
2 = DOUBLE SIDE
3 = LARGE SINGLE SIDE
4 = LARGE DOUBLE SIDE
5 = VERTICAL EDGE

T

PACKAGING

T = TAPE & REEL
V = VERTICAL TAPE
B = BULK
W = WAFFLE PACK
S = SPECIAL

TEMEX: 501CHA100CGLM

501

VOLTAGE

500 = 50V
101 = 100V
201 = 200V
301 = 300V
501 = 500V
102 = 1000V
122 = 1250V
162 = 1600V
202 = 2000V
252 = 2500V
362 = 3600V
702 = 7000V

CH

SERIES

A

SIZE & DIELECTRIC MATERIAL

CHA = DLI -C11AH
CHB = DLI -C17AH
0402 = DLI -C04UL
R12S = DLI -C11CF
R14S = DLI -C06CF/UL
R15S = DLI -C08UL
S42S = DLI -C17CF
2225 = DLI -C22CF
CLE = DLI -C40CF

100

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE
THRID DIGIT =
ADDITIONAL
NUMBER OF ZEROS
R = DECIMAL POINT
EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

C

TOLERANCE

A = $\pm 0.05pF$
B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$

G

TERMINATION

P = DLI P TERMINATION CODE
G = DLI S TERMINATION CODE
W = DLI T TERMINATION CODE
V = DLI U TERMINATION CODE
1 = DLI A TERMINATION CODE
2 = DLI C TERMINATION CODE
3 = DLI B TERMINATION CODE
6 = DLI F TERMINATION CODE
7 = DLI E TERMINATION CODE

L

MARKING

L = MARKING
REQUESTED
BLANK = NO MARKING

M

PACKAGING

B = BULK
R = 13" REEL
M = TAPE & REEL
W = WAFFLE PACK

MURATA: GRM22E5C2H101KB

GRM22

SIZE & DIELECTRIC MATERIAL

GRM15 = DLI -C04UL
GRM18 = DLI -C06CF/UL
GRM21 = DLI -C08UL
GRM22 = DLI -C17CF/UL

E

HEIGHT DIMENSION

E = 2.5mm

5C

TEMPERATURE RANGE

5C = 25-125°C

2H

VOLTAGE

1H = 50V
2A = 100V
2D = 200V
YD = 300V
2H = 500V
2J = 630V
3A = 1000V
3D = 2000V

101

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE
THRID DIGIT =
ADDITIONAL
NUMBER OF ZEROS
R = DECIMAL POINT
EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

K

TOLERANCE

B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
W = $\pm 0.05pF$

B

PACKAGING

B = BULK
L = 7" PLASTIC
D = 7" PAPER
J = 13" PAPER
K = 13" PLASTIC
D = 7" PAPER

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C11AH

SIZE & DIELECTRIC MATERIAL

C11AH= 0.1pF-100pF
C17AH= 0.1pF-1000pF
C40AH= 1pF-2700pF
C11CF= .01pF-100pF
C17CF= .01pF-1000pF
C22CF= 1pF-2700pF
C40CF= 1pF-5100pF
C04UL= 0.1pF-10pF
C06CF= 0.1pF-47pF
C08UL= 0.1pF-100pF
C11UL= 0.1pF-100pF
C17UL= 0.1pF-1000pF

100

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE

THRID DIGIT =
ADDITIONAL NUMBER OF
ZEROS
R = DECIMAL POINT

EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

J

TOLERANCE

A = $\pm 0.05pF$
B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
X = GMV
S = SPECIAL

8

VOLTAGE

5 = 50V
1 = 100V
8 = 150V
6 = 200V
9 = 250V
3 = 300V
4 = 500V
7 = 1000V
A = 1500V
B = 2000V
G = 2500V
D = 3600V
F = 5000V
H = 7200V
S = SPECIAL

U

TERMINATION

T = Ag TERMINATION, Ni BARRIER LAYER, HEAVY SnPb PLATED SOLDER
U = Ag TERMINATION, Ni BARRIER LAYER, SnPb PLATED SOLDER
S = Ag TERMINATION, Ni BARRIER LAYER, GOLD FLASH
Z = Ag TERMINATION, Ni BARRIER LAYER, Sn PLATED SOLDER
E = Ag TERMINATION, ENHANCED Ni BARRIER LAYER
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= POLYMER TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER W** =
Ag TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER
H** = Ag TERMINATION, ENHANCED Cu BARRIER LAYER, Sn PLATED SOLDER
V** = Ag TERMINATION, Cu BARRIER LAYER, SnPb PLATED SOLDER
R** = Ag TERMINATION, Cu BARRIER LAYER, HEAVY SnPb PLATED SOLDER

N

LEADING

A = AXIAL RIBBON
B = RADIAL RIBBON
C = CENTER RIBBON
D = CUSTOMER DEFINED
E = AXIAL WIRE
F = RADIAL WIRE
N = NONE

X

TEST CODE

X = COMMERCIAL
Y = REDUCED VISIAL
A = GROUP A
C = GROUP C
D = CUSTOMER
SPECIFIED

0

MARKING

1 = SINGLE SIDE
2 = DOUBLE SIDE
3 = LARGE SINGLE SIDE
4 = LARGE DOUBLE SIDE
5 = VERTICAL EDGE

T

PACKAGING

T = TAPE & REEL
V = VERTICAL TAPE
B = BULK
W = WAFFLE PACK
S = SPECIAL

JOHANSON: 201R14C100JV4E

200

VOLTAGE

100 = 10V
160 = 16V
250 = 25V
500 = 50V
101 = 100V
201 = 200V

R14

SIZE & DIELECTRIC MATERIAL

R07 = DLI -C04UL
R14 = DLI -C06CF/UL
R15 = DLI -C08UL
S48 = DLI -C22CF

N

DIELECTRIC

N = NP0
W = X7R
X = X5R

100

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT
FIGURES IN
CAPACITANCE
THRID DIGIT =
ADDITIONAL
NUMBER OF ZEROS
R = DECIMAL POINT

EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

J

TOLERANCE

B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
W = $\pm 0.05pF$

V

TERMINATION

V = DLI Z TERMINATION CODE
P = DLI P TERMINATION CODE

4

MARKING

4 = NOT MARKED
6 = SINGLE SIDE

E

PACKAGING

E = 7" TAPE
T = 7" PAPER
U = 13" TAPE
R = 13" PAPER
W = WAFFLE PACK

VISHAY: VJ0402L0100AXCA

VJ0402L

SIZE & DIELECTRIC MATERIAL

VJ0402 = DLI -C04UL
VJ0603 = DLI -C06CF/UL
VJ0805 = CLI -C08UL

100

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT
FIGURES IN
CAPACITANCE
THRID DIGIT =
ADDITIONAL
NUMBER OF ZEROS
R = DECIMAL POINT

EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

A

TOLERANCE

A = .05pF
B = $\pm 0.1pF$
C = $\pm 0.25pF$
D = $\pm 0.5pF$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$

X

TERMINATION

X = DLI Z TERMINATION CODE

A

VOLTAGE

A = 50V
B = 100V
P = 250V
A = 1500V

C

PACKAGING

C = 7" TAPE
P = 13" PAPER

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C11AH

SIZE & DIELECTRIC MATERIAL

C11AH= 0.1pF-100pF
C17AH= 0.1pF-1000pF
C40AH= 1pF-2700pF
C11CF= .01pF-100pF
C17CF= .01pF-1000pF
C22CF= 1pF-2700pF
C40CF= 1pF-5100pF
C04UL= 0.1pF-10pF
C06CF= 0.1pF-47pF
C08UL= 0.1pF-100pF
C11UL= 0.1pF-100pF
C17UL= 0.1pF-1000pF

100

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE

THIRD DIGIT =
ADDITIONAL NUMBER OF
ZEROS
R = DECIMAL POINT

EXAMPLES:
620 = 62pF
152 = 1500pF
2R7 = 2.7pF

J

TOLERANCE

A = $\pm 0.05\text{pF}$
B = $\pm 0.1\text{pF}$
C = $\pm 0.25\text{pF}$
D = $\pm 0.5\text{pF}$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
M = $\pm 20\%$
X = GMV
S = SPECIAL

8

VOLTAGE

5 = 50V
1 = 100V
8 = 150V
6 = 200V
9 = 250V
3 = 300V
4 = 500V
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A = 1500V
G = 2000V
B = 2500V
D = 3600V
F = 5000V
H = 7200V
S = SPECIAL

U

TERMINATION

T = Ag TERMINATION, Ni BARRIER LAYER, HEAVY SnPb PLATED SOLDER
U = Ag TERMINATION, Ni BARRIER LAYER, SnPb PLATED SOLDER
S = Ag TERMINATION, Ni BARRIER LAYER, GOLD FLASH
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P** = AgPd TERMINATION
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Y = POLYMER TERMINATION, Ni BARRIER LAYER, SnPb PLATED SOLDER M** =
POLYMER TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER W** =
Ag TERMINATION, Cu BARRIER LAYER, Sn PLATED SOLDER
H** = Ag TERMINATION, ENHANCED Cu BARRIER LAYER, Sn PLATED SOLDER
V** = Ag TERMINATION, Cu BARRIER LAYER, SnPb PLATED SOLDER
R** = Ag TERMINATION, Cu BARRIER LAYER, HEAVY SnPb PLATED SOLDER

N

LEADING

A = AXIAL RIBBON
B = RADIAL RIBBON
C = CENTER RIBBON
D = CUSTOMER DEFINED
E = AXIAL WIRE
F = RADIAL WIRE
N = NONE

X

TEST CODE

X = COMMERCIAL
Y = REDUCED VISUAL
A = GROUP A
C = GROUP C
D = CUSTOMER
SPECIFIED

0

MARKING

1 = SINGLE SIDE
2 = DOUBLE SIDE
3 = LARGE SINGLE SIDE
4 = LARGE DOUBLE SIDE
5 = VERTICAL EDGE

T

PACKAGING

T = TAPE & REEL
V = VERTICAL TAPE
B = BULK
W = WAFFLE PACK
S = SPECIAL

PRESIDIO: 0805NPQ101K2P3

0805NPQ

SIZE & DIELECTRIC MATERIAL

0402 = DLI -C04UL
0505 = DLI -C11UL
0603 = DLI -C06UL
0805 = DLI -C08UL
1010 = DLI -C17UL

100

CAPACITANCE

FIRST TWO DIGITS =
SIGNIFICANT FIGURES IN
CAPACITANCE

THIRD DIGIT =
ADDITIONAL NUMBER OF
ZEROS

EXAMPLES:
620 = 62pF
152 = 1500pF

K

TOLERANCE

A = $\pm 0.05\text{pF}$
B = $\pm 0.10\text{pF}$
C = $\pm 0.25\text{pF}$
D = $\pm 0.50\text{pF}$
F = $\pm 1\%$
G = $\pm 2\%$
J = $\pm 5\%$
K = $\pm 10\%$
L = $-10\% / +20\%$
M = $\pm 20\%$
Z = $+80\% / -20\%$
P = $+100\% / -0\%$

2

VOLTAGE

2 = 50V
3 = 100V
4 = 200V
5 = 300V
6 = 500V
9 = 1000V
10 = 1500V
11 = 2000V
12 = 2500V

P

TERMINATION

P= DLI Z TERMINATION CODE

3

PACKAGING

3 = TAPE & REEL