THE DATASHEET OF

C4532X7R1H475K200KB

TDK MLCC Catalog Number Descr

C.3216.X7R.1H.105.K.160.

Series Name

	Description
C	General Purpose
CKC	Array
CKG	MEGACAP
CLL	Ultra Low Inductance

Case Size Code

	C	CKC	CKG	CLL
0.40 x 0.20	0402			
0.50 x 1.00	0510			
0.60 x 0.30	0603			
0.80 x 1.60	0816			
0.90 x 0.60		N27		
1.00 x 0.50	1005			
1.25 x 2.00	1220			
1.37 x 1.00		M25		
1.60 x 0.80	1608			C1A
1.60 x 3.20	1632			
2.00 x 1.25	2012	L22 L44		E1A
3.20 x 1.60	3216	A43		G1A
3.20 x 2.50	3225			
3.80 x 2.90			32K	
4.50 x 2.00	4520			
4.50 x 3.20	4532			
5.50 x 4.00			45K 45N	
5.70 x 5.00	5750			
6.50 x 5.50			57K 57N	
7.50 x 6.30	7563			

Temperature Characteristics

	Temperature	Temperature Coefficient or Capacitance Change
CH	-25°C to +85°C	0±60ppm/°C
C0G	-55°C to +125°C	0±30ppm/°C
NP0	-55°C to +150°C	0±30ppm/°C
JB	-25°C to +85°C	±10%
X5R	-55°C to +85°C	±15%
X6S	-55°C to +105°C	±22%
X7R	-55°C to +125°C	±15%
X7S	-55°C to +125°C	±22%
X7T	-55°C to +125°C	+22, -33%
X8R	-55°C to +150°C	±15%

Rated Voltage Code

	A	C	D	E	F	G	H	J	V	W
0						4V		6.3V		
1	10V	16V		25V			50V		35V	
2	100V		200V	250V				630V		450V
3	1KV		2KV		3KV					

Capacitance Tolerance

	Description
B	± 0.10 pF
C	± 0.25 pF
D	± 0.50 pF
F	±1%
G	±2%
J	±5%
K	±10%
M	±20%

Thickness Code

	Description
020	0.20 mm
030	0.30 mm
045	0.45 mm
050	0.50 mm
055	0.55 mm
060	0.60 mm
070	0.70 mm
080	0.80 mm
085	0.85 mm
100	1.00 mm
110	1.10 mm
115	1.15 mm
125	1.25 mm
130	1.30 mm
160	1.60 mm
200	2.00 mm
230	2.30 mm
250	2.50 mm
280	2.80 mm
290	2.90 mm
320	3.20 mm
335	3.35 mm
500	5.00 mm

Nominal Capacitance

The capacitance is expressed in three digit codes an
The first and second digits identify the first and seco
capacitance. The third digit identifies the multiplier
point.

Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,000pF

TDK MLCC Catalog Number Descr

CGA.5.L.3.X7R.1H.105.K.16

Series Name

	Description
CGA	Automotive Grade
CGJ	High Reliability Grade
CEU	Serial Design

Case Size Code

	CGA	CGJ	CEU
0.60 x 0.30	1		
1.00 x 0.50	2	2	
1.60 x 0.80	3	3	3
2.00 x 1.25	4	4	4
3.20 x 1.60	5	5	
3.20 x 2.50	6		
4.50 x 2.00	7		
4.50 x 3.20	8		
5.70 x 5.00	9		

Thickness Code

	Description
A	0.30 mm
B	0.50 mm
C	0.60 mm
E	0.80 mm
F	0.85 mm
G	1.10 mm
H	1.15 mm
J	1.25 mm
K	1.30 mm
L	1.60 mm
M	2.00 mm
N	2.30 mm
P	2.50 mm
Q	2.80 mm
R	3.20 mm

Capacitance Tolerance

	Description
C	± 0.25 pF
D	± 0.50 pF
F	±1%
J	±5%
K	±10%
M	±20%

Nominal Capacitan

The capacitance is expressed in three digit code (pF). The first and second digits identify the firs of the capacitance. The third digit identifies th decimal point.

Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,0

Life Test Condition or Function Identification Code

	Description
1	1.0 x Rated Voltage
2	2.0 x Rated Voltage
3	1.5 x Rated Voltage
4	1.2 x Rated Voltage
A	ESD Protection

Temperature Characteristics

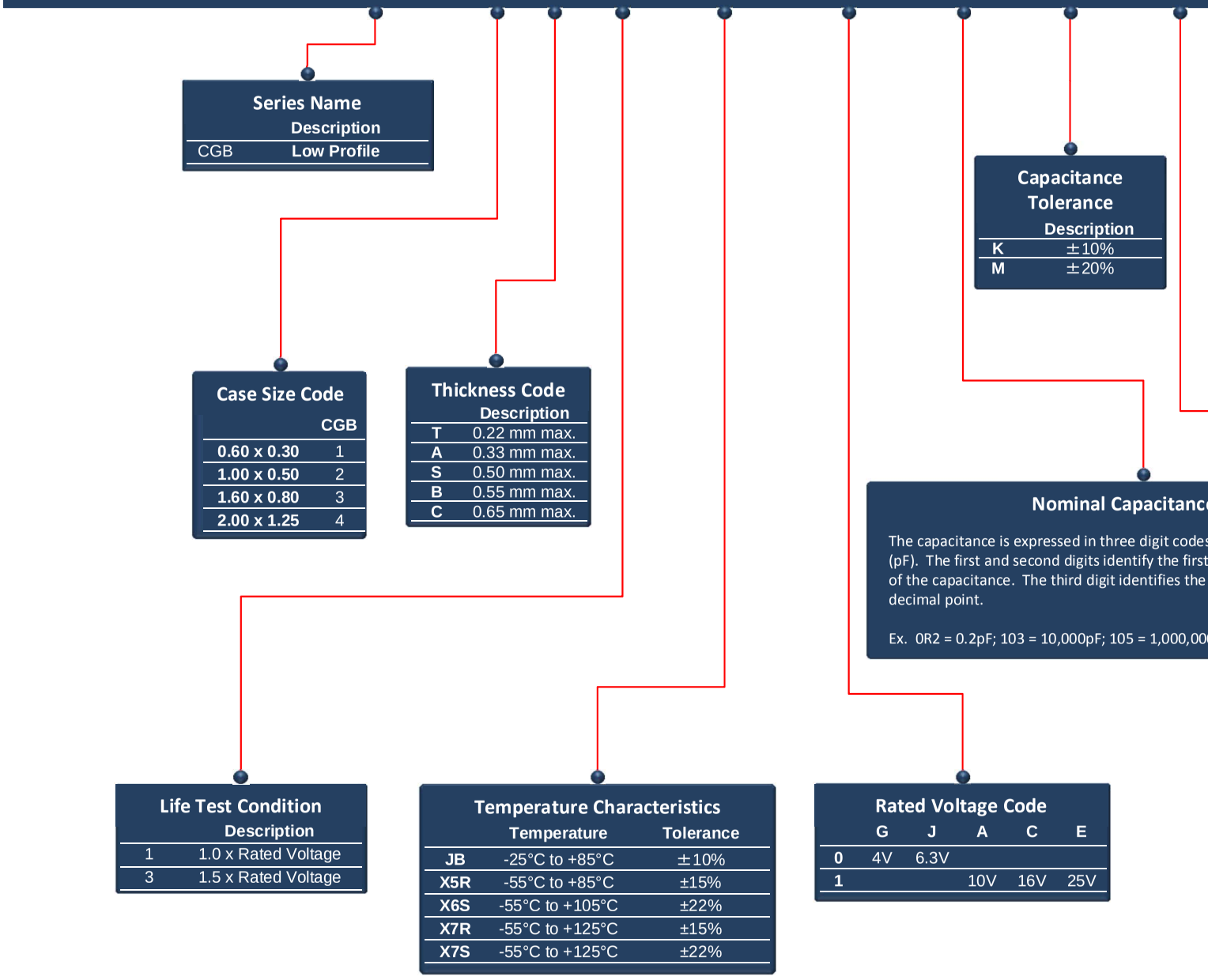
	Temperature	Temperature Coefficient or Capacitance Change
C0G	-55°C to +125°C	0±30ppm/°C
NP0	-55°C to +150°C	0±30ppm/°C
X5R	-55°C to +85°C	±15%
X6S	-55°C to +105°C	±22%
X7R	-55°C to +125°C	±15%
X7S	-55°C to +125°C	±22%
X7T	-55°C to +125°C	+22, -33%
X8R	-55°C to +150°C	±15%

Rated Voltage Code

	A	C	D	E	F	H	J
0							6.3
1	10V	16V		25V		50V	
2	100V		200V	250V		500V	630
3	1KV		2KV		3KV		

TDK MLCC Catalog Number Descr

CGB.3.C.1.X5R.0J.106.M.06



Series Name

	Description
CGB	Low Profile

Case Size Code

	CGB
0.60 x 0.30	1
1.00 x 0.50	2
1.60 x 0.80	3
2.00 x 1.25	4

Thickness Code

	Description
T	0.22 mm max.
A	0.33 mm max.
S	0.50 mm max.
B	0.55 mm max.
C	0.65 mm max.

Capacitance Tolerance

	Description
K	±10%
M	±20%

Nominal Capacitanc

The capacitance is expressed in three digit codes (pF). The first and second digits identify the first of the capacitance. The third digit identifies the decimal point.

Ex. 0R2 = 0.2pF; 103 = 10,000pF; 105 = 1,000,00

Life Test Condition

	Description
1	1.0 x Rated Voltage
3	1.5 x Rated Voltage

Temperature Characteristics

	Temperature	Tolerance
JB	-25°C to +85°C	±10%
X5R	-55°C to +85°C	±15%
X6S	-55°C to +105°C	±22%
X7R	-55°C to +125°C	±15%
X7S	-55°C to +125°C	±22%

Rated Voltage Code

	G	J	A	C	E
0	4V	6.3V			
1			10V	16V	25V

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