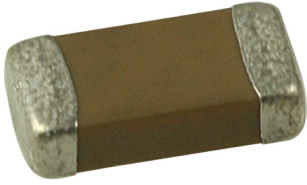


High Voltage Ceramic Capacitors (HVC Series)



Features:

- RoHS Compliant and Halogen Free
- Capacitance range: 0.5pF to 2.2uF
- Voltage range: 200V to 5000V
- Ceramic monolithic structure provides excellent reliability
- High-speed automated placement capabilities

Part Number Structure

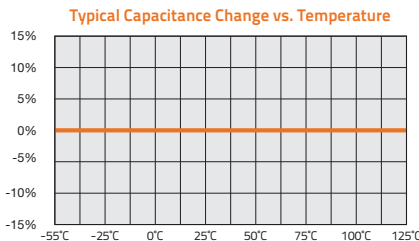
C	1808	X7R	202	-	102	K	N	E
Ceramic Capacitor	Size	Temperature Characteristic (Dielectric)	Rated Voltage		Capacitance (pico - Farads)	Tolerance:	Termination	Packaging
	0603		1st two digits are significant		1st two digits are significant,	*C = $\pm 0.25\text{pF}$	N = 100% matte Tin (Sn) over nickel.	P = Paper Tape
	0805		followed by number of zeroes.		followed by number of zeroes.	*D = $\pm 0.50\text{pF}$	P = Palladium Silver	E = Embossed Tape
	1206	COG	201 = 200V		101 = 100pF	F = $\pm 1\%$		
	1210	X7R	251 = 250V		R denotes decimal	G = $\pm 2\%$		
	1808		501 = 500V		6R8 = 6.8pF	J = $\pm 5\%$		
	1812		601 = 600V			K = $\pm 10\%$		
	1825		631 = 630V			M = $\pm 20\%$		
	2220		102 = 1000V			N = $\pm 30\%$		
	2225		202 = 2000V			*For values below 10pF only.		
			302 = 3000V					
			402 = 4000V					
			502 = 5000V					

Example P/N: C1808X7R202-102KNE

Standard termination finish is 100% matte Tin (Sn).

Electrical Specifications

COG (NPO)



Operating Temperature Range:
-55°C to +125°C

Temperature Coefficient:

0 $\pm 30\text{PPM}/^\circ\text{C}$

Temperature Voltage Coefficient:

0 $\pm 30\text{PPM}/^\circ\text{C}$

Insulation Resistance:

>100 Ω -F or 10 G Ω , whichever is less at 25°C, WDCV.

(The IR at 125°C is 10% of the value at 25°C)

Withstanding Voltage:

See below

Capacitance Tolerance:

C, D, F, G, J, K

Dielectric Strength is equal to 1.5 times rated voltage (WVDC) for 500 volt capacitors and 1.2 times (WVDC) for 1,000 through 5,000 volt capacitors.

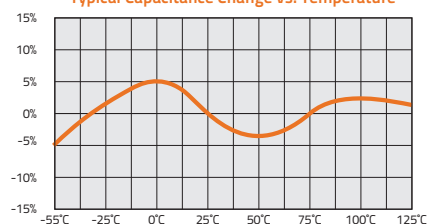
Circuit applications in excess of 1,000 volts may require a surface coating to prevent external arcing.

High Voltage Ceramic Capacitors (HVC Series)

Electrical Specifications

X7R

Typical Capacitance Change vs. Temperature



Operating Temperature Range:

-55°C to +125°C

Temperature Coefficient:

0 ±15%Δ°C MAX.

Temperature Voltage Coefficient:

X7R not applicable

Insulation Resistance:

>100 ohms F or 10 G ohms, whichever is less at 25°C, WDCV.

(The IR at 125°C is 10% of the value at 25°C)

Withstanding Voltage:

See below

D.F. Specification:

≥50V, ≤2.5%

Capacitance Tolerance:

J,K,M,N

Test Parameters

Test parameters for Multilayer Ceramic Capacitors - X7R:

1KHz ± 50Hz at 1.0 ± 0.2 Vrms, 25°C

Test parameters for Multilayer Ceramic Capacitors - COG (NP0):

1MHz ± 50KHz at 1.0 ± 0.2 Vrms ≤ 1000pF, 25°C

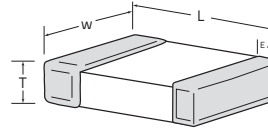
1KHz ± 50Hz at 1.0 ± 0.2 Vrms > 1000pF, 25°C

Note: To ensure proper capacitance readings, the voltage level must be held constant. The HP4284 and Agilent E4980 has a "ALC" (Automatic Level Control) function and should be switched to the "ON" position for accurate capacitance readings.

High Voltage Ceramic Capacitors (HVC Series)

Voltage and Capacitance Range

COG (NP0) Dielectric



Values that are typically available.

(All measurements in inches)

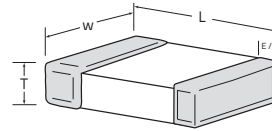
Size		0603	0805				1206					1210			
L		.063 ± .004	.080 ± .008				.125 ± .012					.125 ± .012			
W		.031 ± .004	.050 ± .008				.062 ± .008					.095 ± .008			
T (max)		.039	.065				.080					.085			
Max E/B		.006	.020				.020					.020			
VDCW (MAX)		200V / 250V	200V / 250V	500V	600V / 630V	200V / 250V	500V	600V / 630V	1KV	2KV	3KV	200V / 250V	500V	600V / 630V	1KV
CAPACITANCE CODE	OR5	0.5pF													
	1R0	1.0pF													
	1R2	1.2pF													
	1R5	1.5pF													
	1R8	1.8pF													
	2R0	2.0pF													
	2R2	2.2pF													
	2R7	2.7pF													
	3R3	3.3pF													
	3R9	3.9pF													
	5R0	5.0pF													
	8R2	8.2pF													
	100	10pF													
	120	12pF													
	150	15pF													
	180	18pF													
	220	22pF													
	270	27pF													
	330	33pF													
	390	39pF													
CAPACITANCE VALUE	470	47pF													
	560	56pF													
	680	68pF													
	820	82pF													
	101	100pF													
	121	120pF													
	151	150pF													
	181	180pF													
	221	220pF													
	271	270pF													
	331	330pF													
	391	390pF													
	471	470pF													
	561	560pF													
	681	680pF													
	821	820pF													
	102	1000pF													
	122	1200pF													
	152	1500pF													
CAPACITANCE VALUE	182	1800pF													
	222	2200pF													
	272	2700pF													
	332	3300pF													
	392	3900pF													
	472	4700pF													
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	822	8200pF													
	103	0.01uF													
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	183	0.018uF													
	223	0.022uF													
	273	0.027uF													
	333	0.033uF													
	393	0.039uF													
	473	0.047uF													
	563	0.056uF													
	683	0.068uF													
	104	0.10uF													
	124	0.12uF													

Note: Additional values may be available. Please contact us for more information. Due to demand and raw material fluctuations, specific values may not be available.

High Voltage Ceramic Capacitors (HVC Series)

Voltage and Capacitance Range

COG (NP0) Dielectric



Values that are typically available.

(All measurements in inches)

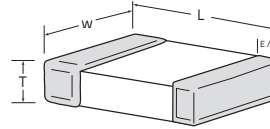
Size		1808						1812						1825			
L		.180 ± .012						.177 ± .012						.180 ± .012			
W		.080 ± .008						.125						.250 ± .016			
T (max)		.095						.118						.128			
Max E/B		.020						.020						.020			
VDCW (MAX)		500V	600V / 630V	1KV	2KV	3KV	5KV	200V / 250V	500V	600V / 630V	1KV	2KV	3KV	200V / 250V	500V	600V / 630V	1KV
CAPACITANCE CODE ↑ ↓	OR5	0.5pF															
	1R0	1.0pF															
	1R2	1.2pF															
	1R5	1.5pF															
	1R8	1.8pF															
	2R0	2.0pF															
	2R2	2.2pF															
	2R7	2.7pF															
	3R3	3.3pF															
	3R9	3.9pF															
	5R0	5.0pF															
	8R2	8.2pF															
	100	10pF															
	120	12pF															
	150	15pF															
	180	18pF															
	220	22pF															
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	390	39pF															
	470	47pF															
	560	56pF															
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	820	82pF															
	101	100pF															
	121	120pF															
	151	150pF															
	181	180pF															
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	271	270pF															
	331	330pF															
	391	390pF															
	471	470pF															
	561	560pF															
	681	680pF															
	821	820pF															
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	122	1200pF															
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	472	4700pF															
	562	5600pF															
	682	6800pF															
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	103	0.01uF															
	123	0.012uF															
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	333	0.033uF															
	393	0.039uF															
	473	0.047uF															
	563	0.056uF															
	683	0.068uF															
	104	0.10uF															
	124	0.12uF															

Note: Additional values may be available. Please contact us for more information. Due to demand and raw material fluctuations, specific values may not be available.

High Voltage Ceramic Capacitors (HVC Series)

Voltage and Capacitance Range

COG (NP0) Dielectric



Values that are typically available.

(All measurements in inches)

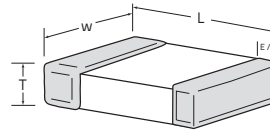
Size		2220					2225			
L		.220 ± .016					.225 ± .016			
W		.197 ± .016					.250 ± .016			
T (max)		.118					.145			
Max E/B		.012					.020			
VDCW (MAX)		200V / 250V	500V	600V / 630V	1KV	5KV	200V / 250V	500V	600V / 630V	1KV
OR5	0.5pF									
1R0	1.0pF									
1R2	1.2pF									
1R5	1.5pF									
1R8	1.8pF									
2R0	2.0pF									
2R2	2.2pF									
2R7	2.7pF									
3R3	3.3pF									
3R9	3.9pF									
5R0	5.0pF									
8R2	8.2pF									
100	10pF									
120	12pF									
150	15pF									
180	18pF									
220	22pF									
270	27pF									
330	33pF									
390	39pF									
470	47pF									
560	56pF									
680	68pF									
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101	100pF									
121	120pF									
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332	3300pF									
392	3900pF									
472	4700pF									
562	5600pF									
682	6800pF									
822	8200pF									
103	0.01uF									
123	0.012uF									
153	0.015uF									
183	0.018uF									
223	0.022uF									
273	0.027uF									
333	0.033uF									
393	0.039uF									
473	0.047uF									
563	0.056uF									
683	0.068uF									
104	0.10uF									
124	0.12uF									

Note: Additional values may be available. Please contact us for more information. Due to demand and raw material fluctuations, specific values may not be available.

High Voltage Ceramic Capacitors (HVC Series)

Voltage and Capacitance Range

X7R Dielectric



Values that are typically available.

(All measurements in inches)

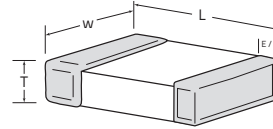
Size		0603		0805			1206					1210				
L		.063 ± .007		.080 ± .008			.125 ± .012					.125 ± .012				
W		.031 ± .007		.050 ± .008			.062 ± .008					.095 ± .008				
T (max)		.031		.065			.080					.085				
Max E/B		.015		.020			.020					.020				
VDCW (MAX)		200V / 250V	200V / 250V	500V	600V / 630V	1KV	200V / 250V	500V	600V / 630V	1KV	2KV	200V / 250V	500V	600V / 630V	1KV	2KV
CAPACITANCE CODE	101	100pF														
	121	120pF														
	151	150pF														
	181	180pF														
	221	220pF														
	271	270pF														
	331	330pF														
	391	390pF														
	471	470pF														
	561	560pF														
	681	680pF														
	821	820pF														
	102	1000pF														
	122	1200pF														
	152	1500pF														
	182	1800pF														
	222	2200pF														
	272	2700pF														
	332	3300pF														
	392	3900pF														
	472	4700pF														
	562	5600pF														
	682	6800pF														
	822	8200pF														
CAPACITANCE VALUE	103	0.01uF														
	123	0.012uF														
	153	0.015uF														
	183	0.018uF														
	223	0.022uF														
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	393	0.039uF														
	473	0.047uF														
	563	0.056uF														
	683	0.068uF														
	104	0.10uF														
	124	0.12uF														
	154	0.15uF														
	184	0.18uF														
	224	0.22uF														
	274	0.27uF														
	334	0.33uF														
	394	0.39uF														
	474	0.47uF														
	564	0.56uF														
	684	0.68uF														
	824	0.82uF														
	105	1.0uF														
	155	1.5uF														
	225	2.2uF														

Note: Additional values may be available. Please contact us for more information. Due to demand and raw material fluctuations, specific values may not be available.

High Voltage Ceramic Capacitors (HVC Series)

Voltage and Capacitance Range

X7R Dielectric



Values that are typically available.

(All measurements in inches)

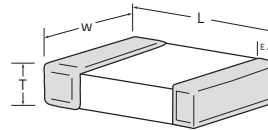
Size		1808						1812						1825			
L		.180 ± .012						.177 ± .012						.180 ± .012			
W		.080 ± .008						.125						.250 ± .016			
T (max)		.095						.118						.128			
Max E/B		.020						.020						.020			
VDCW (MAX)		500V	600V / 630V	1KV	2KV	3KV	4KV	200V / 250V	500V	600V / 630V	1KV	2KV	3KV	200V / 250V	500V	1KV	2KV
101	100pF																
121	120pF																
151	150pF																
181	180pF																
221	220pF																
271	270pF																
331	330pF																
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472	4700pF																
562	5600pF																
682	6800pF																
822	8200pF																
103	0.01uF																
123	0.012uF																
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334	0.33uF																
394	0.39uF																
474	0.47uF																
564	0.56uF																
684	0.68uF																
824	0.82uF																
105	1.0uF																
155	1.5uF																
225	2.2uF																

Note: Additional values may be available. Please contact us for more information. Due to demand and raw material fluctuations, specific values may not be available.

High Voltage Ceramic Capacitors (HVC Series)

Voltage and Capacitance Range

X7R Dielectric



Values that are typically available.

(All measurements in inches)

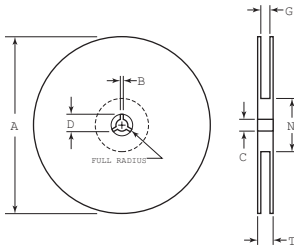
Size		2220				2225			
L		.220 ± .016				.225 ± .016			
W		.197 ± .016				.250 ± .016			
T (max)		.118				.145			
Max E/B		.012				.020			
VDCW (MAX)		200V / 250V	500V	1KV	2KV	200V / 250V	500V	1KV	2KV
CAPACITANCE CODE	151	150pF							
	181	180pF							
	221	220pF							
	271	270pF							
	331	330pF							
	391	390pF							
	471	470pF							
	561	560pF							
	681	680pF							
	821	820pF							
	102	1000pF							
	122	1200pF							
	152	1500pF							
	182	1800pF							
	222	2200pF							
	272	2700pF							
	332	3300pF							
	392	3900pF							
	472	4700pF							
	562	5600pF							
	682	6800pF							
	822	8200pF							
CAPACITANCE VALUE	103	0.01uF							
	123	0.012uF							
	153	0.015uF							
	183	0.018uF							
	223	0.022uF							
	273	0.027uF							
	333	0.033uF							
	393	0.039uF							
	473	0.047uF							
	563	0.056uF							
	683	0.068uF							
	104	0.10uF							
	124	0.12uF							
	154	0.15uF							
	184	0.18uF							
	224	0.22uF							
	274	0.27uF							
	334	0.33uF							
	394	0.39uF							
	474	0.47uF							
	564	0.56uF							
	684	0.68uF							
	824	0.82uF							
	105	1.0uF							
	155	1.5uF							
	225	2.2uF							

Note: Additional values may be available. Please contact us for more information. Due to demand and raw material fluctuations, specific values may not be available.

High Voltage Ceramic Capacitors (HVC Series)

Tape and Reel Specifications

All tape and reel specifications must be adhered to per EIA-481-1-A.

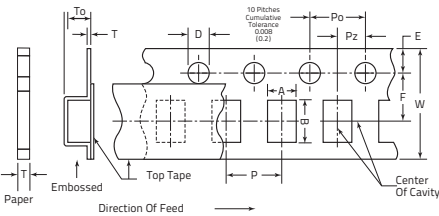


Reel Dimensions

Unit: mm (inch)

TAPE	B min	C	A (7")	A (13")	D min	N min	G	T max
8mm	0.3 (.012)	13 ± .05 (.512 ± .02)	178 ± 2.0 (7 ± .079)	330 ± 2.0 (13 ± .08)	20.2 (.795)	50 (1.97)	10 ± 1.5 (.394 ± .059)	14.9 (.587)
12mm	0.3 (.012)	13 ± .05 (.512 ± .02)	178 ± 2.0 (7 ± .079)	330 ± 2.0 (13 ± .08)	20.2 (.795)	50 (1.97)	10 ± 1.5 (.394 ± .059)	14.9 (.587)

Taping Specifications



7 in. Reel Quantities*

Size	0603	0805	1206	1210	1812	2221
Tape Size	8mm	8mm	8mm	8mm	12mm	12mm
Min Qty Per Reel	3000	2000	2000	1000	1000	1000
Max Qty Per Reel	4000	5000	5000	5000	3000	1000

*Quantity dependent on thickness

Paper Tape Carrier Dimensions (8mm)

Unit: mm (inch)

Size (inches)	A	B	W	F	E	Po	Pz	D	t	P
0603	$\frac{1.10 \pm 0.2}{(.043 \pm .008)}$	$\frac{1.90 \pm 0.2}{(.075 \pm .008)}$	$\frac{8.0 \pm 0.2}{(.315 \pm .008)}$	$\frac{3.5 \pm 0.1}{(.138 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{-.00}$ $\frac{-.00}{(.039 \pm .002)}$	$\frac{1.5 \pm 0.1}{(.064 \pm .004)}$	$\frac{1.15 \text{ MAX}}{(.045 \text{ MAX})}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$
0805	$\frac{1.16 \pm 0.2}{(.046 \pm .008)}$	$\frac{2.4 \pm 0.2}{(.095 \pm .008)}$	$\frac{8.0 \pm 0.2}{(.315 \pm .008)}$	$\frac{3.5 \pm 0.1}{(.138 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{-.00}$ $\frac{-.00}{(.039 \pm .002)}$	$\frac{1.5 \pm 0.1}{(.064 \pm .004)}$	$\frac{1.15 \text{ MAX}}{(.045 \text{ MAX})}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$
1206	$\frac{2.0 \pm 0.2}{(.079 \pm .008)}$	$\frac{3.6 \pm 0.2}{(.142 \pm .008)}$	$\frac{8.0 \pm 0.2}{(.315 \pm .008)}$	$\frac{3.5 \pm 0.1}{(.138 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{-.00}$ $\frac{-.00}{(.039 \pm .002)}$	$\frac{1.5 \pm 0.1}{(.064 \pm .004)}$	$\frac{1.15 \text{ MAX}}{(.045 \text{ MAX})}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$

Embossed Carrier Dimensions (8mm & 12mm)

Size (inches)	A	B	W	F	E	Po	Pz	D	To	T	P
0805	$\frac{1.48 \pm 0.2}{(.058 \pm .008)}$	$\frac{2.3 \pm 0.2}{(.091 \pm .008)}$	$\frac{8.0 \pm 0.2}{(.315 \pm .008)}$	$\frac{3.5 \pm 0.1}{(.138 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	$\frac{1.5 \pm 0.1}{-.00}$ $\frac{-.00}{(.06 \pm .004)}$	$\frac{2.5 \text{ MAX}}{(.098 \text{ MAX})}$	$\frac{0.6 \text{ MAX}}{(.024 \text{ MAX})}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$
1206	$\frac{2.0 \pm 0.2}{(.079 \pm .008)}$	$\frac{3.6 \pm 0.2}{(.142 \pm .008)}$	$\frac{8.0 \pm 0.2}{(.315 \pm .008)}$	$\frac{3.5 \pm 0.1}{(.138 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	$\frac{1.5 \pm 0.1}{-.00}$ $\frac{-.00}{(.06 \pm .004)}$	$\frac{2.5 \text{ MAX}}{(.098 \text{ MAX})}$	$\frac{0.6 \text{ MAX}}{(.024 \text{ MAX})}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$
1210	$\frac{2.9 \pm 0.2}{(.114 \pm .008)}$	$\frac{3.6 \pm 0.2}{(.142 \pm .008)}$	$\frac{8.0 \pm 0.2}{(.315 \pm .008)}$	$\frac{3.5 \pm 0.1}{(.138 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	$\frac{1.5 \pm 0.1}{-.00}$ $\frac{-.00}{(.06 \pm .004)}$	$\frac{2.5 \text{ MAX}}{(.098 \text{ MAX})}$	$\frac{0.6 \text{ MAX}}{(.024 \text{ MAX})}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$
1808	$\frac{2.5 \pm 0.2}{(.098 \pm .008)}$	$\frac{4.9 \pm 0.2}{(.193 \pm .008)}$	$\frac{12.0 \pm 0.3}{(.472 \pm .012)}$	$\frac{5.5 \pm 0.5}{(.22 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	$\frac{1.5 \pm 0.1}{-.00}$ $\frac{-.00}{(.06 \pm .004)}$	$\frac{4.0 \text{ MAX}}{(.016 \text{ max})}$	$\frac{0.6 \text{ MAX}}{(.024 \text{ MAX})}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$
1812	$\frac{3.6 \pm 0.2}{(.142 \pm .008)}$	$\frac{4.9 \pm 0.2}{(.193 \pm .008)}$	$\frac{12.0 \pm 0.3}{(.472 \pm .012)}$	$\frac{5.6 \pm 0.1}{(.221 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	$\frac{1.5 \pm 0.1}{-.00}$ $\frac{-.00}{(.06 \pm .004)}$	$\frac{4.0 \text{ MAX}}{(.016 \text{ max})}$	$\frac{0.6 \text{ MAX}}{(.024 \text{ MAX})}$	$\frac{8.0 \pm 0.1}{(.315 \pm .004)}$
2220	$\frac{5.4 \pm 0.2}{(.21 \pm .008)}$	$\frac{6.1 \pm 0.2}{(.193 \pm .008)}$	$\frac{12.0 \pm 0.3}{(.472 \pm .012)}$	$\frac{5.5 \pm 0.5}{(.22 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	$\frac{1.5 \pm 0.1}{-.00}$ $\frac{-.00}{(.06 \pm .004)}$	$\frac{4.0 \text{ MAX}}{(.016 \text{ max})}$	$\frac{0.6 \text{ MAX}}{(.024 \text{ MAX})}$	$\frac{8.0 \pm 0.1}{(.315 \pm .004)}$
2225	$\frac{6.9 \pm 0.2}{(.27 \pm .008)}$	$\frac{6.1 \pm 0.2}{(.193 \pm .008)}$	$\frac{12.0 \pm 0.3}{(.472 \pm .012)}$	$\frac{5.5 \pm 0.5}{(.22 \pm .004)}$	$\frac{1.75 \pm 0.1}{(.069 \pm .004)}$	$\frac{4.0 \pm 0.1}{(.157 \pm .004)}$	$\frac{2.0 \pm 0.05}{(.079 \pm .002)}$	$\frac{1.5 \pm 0.1}{-.00}$ $\frac{-.00}{(.06 \pm .004)}$	$\frac{4.0 \text{ MAX}}{(.016 \text{ max})}$	$\frac{0.6 \text{ MAX}}{(.024 \text{ MAX})}$	$\frac{8.0 \pm 0.1}{(.315 \pm .004)}$