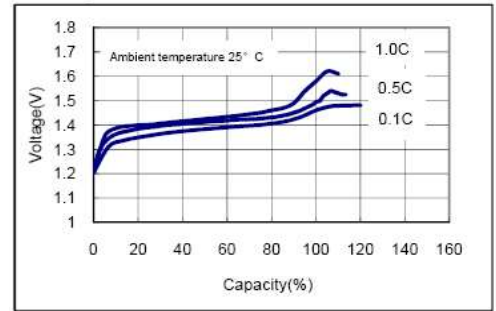


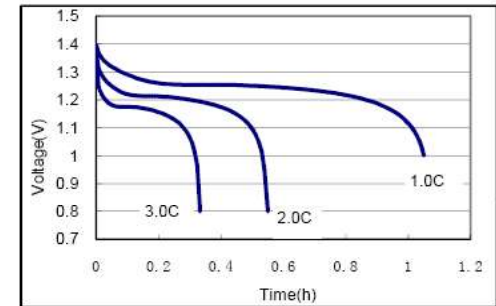
		Conditions
<b>cell type:</b>	NiMH	
<b>cell size:</b>	C	
<b>nominal voltage:</b>	1.2 V	
<b>max. charge voltage:</b>	1.5 V	at standard charge (0.1C / 20°C)
<b>capacity</b>		
nominal:	4500 mAh	discharge at 0.2C
minimum:	4300 mAh	discharge at 0.2C
	3870 mAh	discharge at 1C
		1.0V end discharge voltage
		ta: 20°C
<b>max. continuous discharge current:</b>	13.5 A	ta: 0...45°C
<b>charge</b>	current	time
standard charge:	450 mA	16hrs
quick charge:	1250 mA	4hrs
fast charge:	2000 mA	2.5hrs
recommended charge termination control parameters:	0...5 mV 0.8...1 °C 45...50 °C	- delta V temperature rise per minute TCO (temperature cut off)
trickle charge current:	40...200 mA	(recommended)
continuous overcharge: (less than 1 year)	≤ 400 mA	no conspicuous deformation no leakage
<b>internal resistance:</b> (impedance)	≤ 6 mΩ	at 1KHz battery fully charged
<b>life expectancy:</b>	≥ 500 cycles	acc. IEC standard
<b>self discharge</b>		
charge retention: (at ≤ 20°C ambient)	≥ 85 % ≥ 80 %	after 6 months storage after 12 months storage
<b>initial capacity:</b>	≥ 3000 mAh	within 30 days after delivery discharge at 0.2C
<b>ambient temperature range:</b>	0...45 °C 10...40 °C - 20...55 °C - 20...50 °C - 20...40 °C - 20...30 °C	standard charge fast charge discharge storage (≤3months) storage (≤6months) storage (≤24months)

### Diagrams

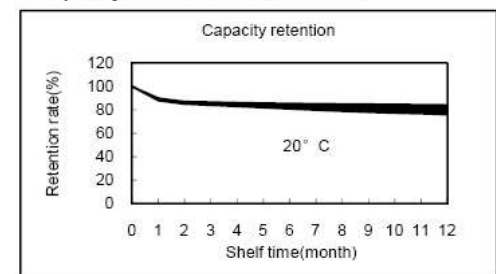
#### Charge characteristics



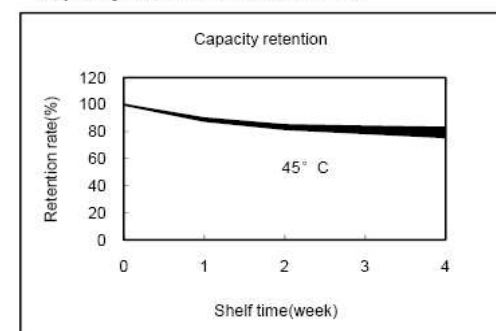
#### Discharge characteristics



#### Capacity retention characteristics



#### Capacity retention characteristics

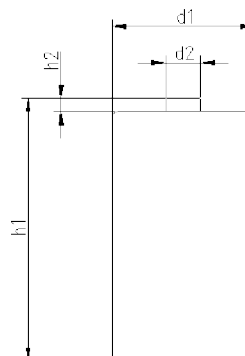


QCT1: 20/4100/10  
QCT2: 30/3800/15

#### mechanical specifications

cell dimensions

diameter d1:	25.8 - 0.8 mm
diameter d2:	approx. 11.0 mm
height h1:	50.0 - 2.0 mm
height h2:	0.0 - 0.3 mm
weight:	80 ± 5 g



VE: 192 pcs./Box

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	<b>ANSMANN Specifications for model:</b>	<b>C4500mAh FLAT TOP</b>
		<b>low self discharge bulk package</b>
	data sheet no. / part no.	2310-3001
	supplier no.	701344
	author / date	TG / 04.02.2014

Manufacturer reserves the right to alter or amend the design, model and specification without prior notice