Chip-Type Ceramic Rechargeable Battery

EnerCera[®] Series

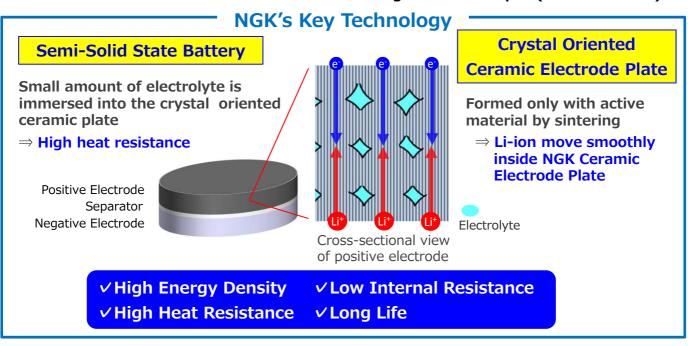


EnerCera® Pouch

- ·Ultra thin and bendable pouch type cell (0.45mm thick)
- ·Can be embedded in IC cards by hot lamination
- ·High current output (several 100 mA)

EnerCera®Coin

- ·Heat resistant coin type cell (1-2mm height)
- ·Can be mounted on board by **Reflow Soldering**
- ·High current output (several 10 mA)





EnerCera®Coin

Model Number	ET1210C-R	ET2016C-R	ET1210C-H	ЕТ2016С-Н	ET920C	ET1616C			
					under development				
Appearance	NGK ET2210C-R	NGK ET2016C-R	NGK ET3210C-H	NGK ET2016C-H	NGC Hall	NGK CTIBLES			
Size	Ф12 x 1.0mm	Ф20 x 1.6mm	Ф12 x 1.0mm	Ф20 x 1.6mm	Ф9 x 2.0mm	Ф16 x 1.6mm			
Nominal Capacity	5mAh	25mAh	4mAh	20mAh	11mAh	(22mAh)			
Nominal Voltage	(provisional value)								
Constant Voltage(CV) Charging	OK (No current control required)								
Internal Resistance	20Ω	8Ω	25Ω	10Ω	25Ω	8Ω			
Peak Discharge Current*1	25mA	60mA	20mA	45mA	20mA	(60mA) (provisional value)			
Operation Temp. (recommended)	-40℃	~60℃	-40℃~105℃		-40℃~60℃				
Heatproof Temp. (in process)	2	60℃ (reflow solo	208						

 $^{^{*1}}$ Voltage drop ≤0.5 V @1sec. (25 $^{\circ}$ C)

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EnerCera®Pouch

Model Number	EC382504P-P	EC382204P-C	EC382704P-C	ЕС382704Р-Н	ET271704P-H			
Appearance	NGK CS82504PP	NGK KCHAZOH-C	NGK ECS827049-C	NGK EC382704P-H	NGK (12273849-M			
Dimensions	38 x 25mm	38 x 22mm	38 x 27mm	38 x 27mm	27 x 17mm			
Thickness								
Nominal Capacity	20mAh	20mAh	27mAh	20mAh	5mAh			
Nominal Voltage		2.3V						
Constant Voltage(CV) Charging		OK (No current control required)						
Internal Resistance	1Ω	3.5Ω	3Ω	4Ω	5Ω			
Peak Discharge Current*1	500mA	140mA	170mA	125mA	100mA			
Bendability	Conforming to ISO 14443-1 standard No deterioration after bending and torsion tests							
Operation Temp. (recommended)		-40℃~60℃						
Heatproof Temp. (in process)	80℃ (Co	ntion is applicable)						
Features	High power	High ca	apacity	High heat resistance	Fast charging*2 High heat resistance			

^{*1} Voltage drop ≤0.5 V @1sec.(25°C)

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Contacts



^{*2 80%} Capacity is charged for 10 min.