

*Using breakthrough technology,  
we aim for products that will create new markets.*

***New Product News***

**New commodity of industry-leading level characteristic**

**Chip Choke Coil**

**Chip Choke Coil (Low DCR Type)**

Industry/Field: AV, OA/Information, Mobile communications

It contributes to the miniaturization of the power supply circuit due to a large current and the low loss



**• Development Target:**

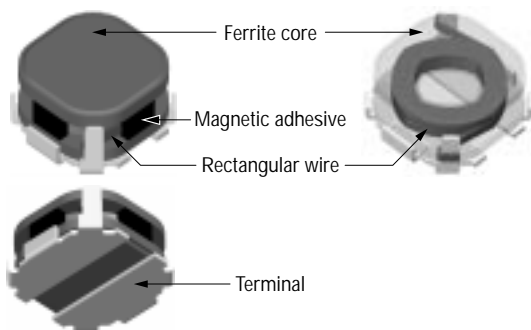
The highly effective, small choke coil demanded from the DC/DC converter of the mobile device is offered

**• Features:**

- 1** A high performance is achieved by improvement of winding space factor by the rectangular wire and the original winding industrial method. High performance was actualized by the application of flat wire winding and ring coreless structure
- 2** The magnetic shield effect is provided by adhesive with magnetic materials structure
- 3** Low profile

**• Number of industrial property rights : Application 3**

**• Construction :**



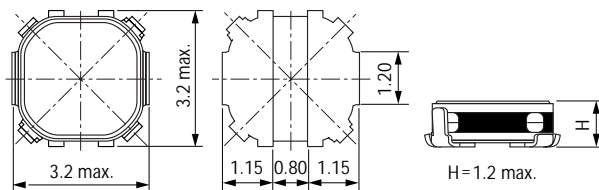
**• Characteristics/specifications :**

Part Number	Inductance (100kHz)		DC Resistance (at 20°C)		Saturation Rated Current (mA max.) *1	Rated Current (mA max.) *2
	(μH)	Tolerance	(mΩ)	Tolerance		
ELL3FU1R0N	1.0	±30%	48	±20%	1700	1700
ELL3FU2R2N	2.2		77		1450	1500
ELL3FU3R3N	3.3		88		1150	1400
ELL3FU4R7N	4.7	130	950		1050	
ELL3FU100M	10.0	±20%	290		600	710

\*1) The saturation current is a current value to which initial inductance decreases by 20%.

\*2) Rated current defines actual value of DC current, when temperature rise of coil becomes 40K

Dimension (Unit : mm)



**• Applications/usage examples :**

- Choke coil for smoothness of DC/DC of mobile device
- Mobile phone, DSC, HDD, MID, Net-Book, etc.

**• Explanation of part numbers :**

