

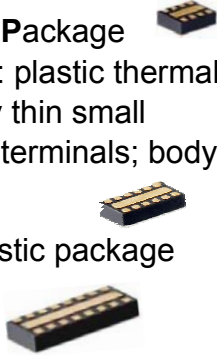
# At a glance

## IP425xCZ8-4/CZ12-6/CZ16-8

Nov. 2008

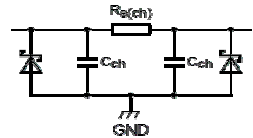
### Package

- ▶ **Ultra Thin Leadless Package** (UTLP) - HXSON12: plastic thermal enhanced extremely thin small outline package; 12 terminals; body 1.35 x 2.5 x 0.5 mm
- ▶ QFN compatible plastic package with 0.4 mm pitch



### Key features

- ▶ IP425xCZ8/CZ12/CZ16: 40; 100; 200  $\Omega$  channel series resistance, 30 pF (at 2.5 V DC) channel capacitance network
- ▶ 4-, 6- and 8-channel integrated p-type RC filter



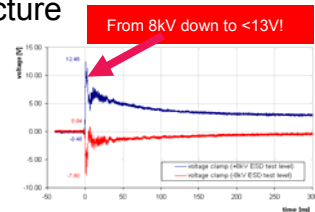
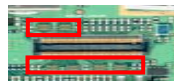
### Applications

General purpose Electro Magnetic Interference (EMI) & Radio-Frequency Interference (RFI) filtering & downstream ESD protection for:

- ▶ Cellular & Personal Communication System (PCS) mobile handsets, PDAs
- ▶ Wireless data (WAN/LAN) systems,
- ▶ Cordless telephones

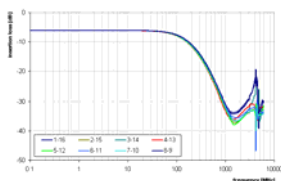
### Advantages

- ▶ 4-, 6- and 8- channel product for maximum flexibility
- ▶ Very low clamping voltage due to pi-filter structure
- ▶ Easy routing



### Technical details

- ▶ Over 30dB attenuation between 800MHz and 2GHz



- ▶ Up to 30kV ESD protection according IEC61000-4-2

### Additional resources

**Check datasheet:**

[http://www.nxp.com/pip/IP4253\\_54\\_CZ8\\_CZ12\\_CZ16\\_2.html](http://www.nxp.com/pip/IP4253_54_CZ8_CZ12_CZ16_2.html)

**Order at sample store:**

[www.nxp.com](http://www.nxp.com)



**Any questions about the new product? Please contact:**

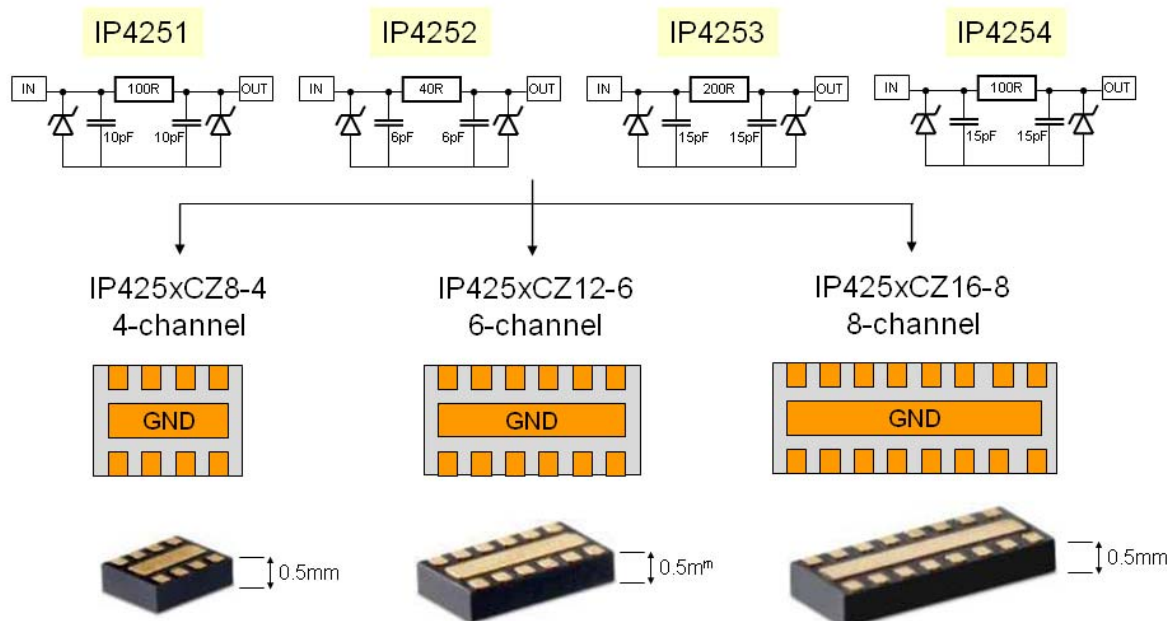
[Cuong.Vuong@nxp.com](mailto:Cuong.Vuong@nxp.com)

# IP425x Family

## ... IP425xCZ8-4/CZ12-6/CZ16-8

| Product | Package Suffix |        | No. of Channels | Resistance (typ.) | Capacitance (typ.) @ 2.5V | Capacitance (typ.) @ 0V | Width (mm) | Length (mm) | Height (mm) |
|---------|----------------|--------|-----------------|-------------------|---------------------------|-------------------------|------------|-------------|-------------|
| IP4251  | CZ8-4          | 8-pin  | 4               | 100 $\Omega$      | 10 pF                     | 15 pF                   | 1.4        | 1.75        | 0.50        |
|         | CZ12-6         | 12-pin | 6               |                   |                           |                         | 1.4        | 2.55        | 0.50        |
|         | CZ16-8         | 16-pin | 8               |                   |                           |                         | 1.4        | 3.35        | 0.50        |
| IP4252  | CZ8-4          | 8-pin  | 4               | 40 $\Omega$       | 12 pF                     | 18 pF                   | 1.4        | 1.75        | 0.50        |
|         | CZ12-6         | 12-pin | 6               |                   |                           |                         | 1.4        | 2.55        | 0.50        |
|         | CZ16-8         | 16-pin | 8               |                   |                           |                         | 1.4        | 3.35        | 0.50        |
| IP4253  | CZ8-4          | 8-pin  | 4               | 200 $\Omega$      | 30 pF                     | 45 pF                   | 1.4        | 1.75        | 0.50        |
|         | CZ12-6         | 12-pin | 6               |                   |                           |                         | 1.4        | 2.55        | 0.50        |
|         | CZ16-8         | 16-pin | 8               |                   |                           |                         | 1.4        | 3.35        | 0.50        |
| IP4254  | CZ8-4          | 8-pin  | 4               | 100 $\Omega$      | 30 pF                     | 45 pF                   | 1.4        | 1.75        | 0.50        |
|         | CZ12-6         | 12-pin | 6               |                   |                           |                         | 1.4        | 2.55        | 0.50        |
|         | CZ16-8         | 16-pin | 8               |                   |                           |                         | 1.4        | 3.35        | 0.50        |

## ... 4-, 6- and 8-channel EMI filters



Any questions about the new product? Please contact:

[Cuong.Vuong@nxp.com](mailto:Cuong.Vuong@nxp.com)