

Jisso Technology Reports

Total Process Solution Study Group

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Total Process Solutions Study Group was started in mid-2003 by engineers in Japan involved in the assembly and Jisso technology for advanced portable equipment such as cellular phones and digital still cameras. The analysis is provided electronically as a Powerpoint presentation. The report is marketed by TechSearch International, Inc.

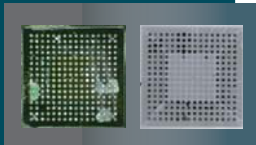
NTT DoCoMo 900i Series, July 2004

The PowerPoint presentation contains trends in four of NTT's DoCoMo FOMA 900i series phones (Fujitsu, NEC, Panasonic, and Sharp). Included are details and cross sections of the mobile phone boards and the packages used in these products, camera modules, flex circuit, motherboards with feature sizes. (100 slides with color photos, Price: \$1,000).



IC Packages for NTT DoCoMo 900i Series

- IC packages by type (size, pin count, lead pitch)
- Use of underfill for packages
- Main components in phones
- Memory card modules
- Components of LCD boards
- Passive OLED module
- Main board for analog/digital
- Components and ICs on main boards
- Camera module and LCD board



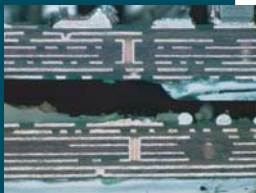
Motherboards for NTT DoCoMo 900i Series

- Main board (line, space, and vias)
- Board construction
- Cross section photos
- Flexible printed circuit board (COF, hinge)



Camera Modules for NTT DoCoMo 900i Series

- Inside and outside camera modules
- Module maker
- Effective and recording pixels
- Package types (pin counts, size, thickness)
- Substrate types
- Number and type of passives



Phone Models

- Fujitsu
- NEC
- Panasonic (Matsushita)
- Sharp

Analysis of NTT DoCoMo's 505iS Series, March 2004

The Powerpoint presentation features an analysis of NTT's new 505iS mobile phones. Included are details of the body, function, and service. Also included is the use of coaxial cable connections instead of flex circuit cables, antenna developments, and camera modules. LCD structures and construction are highlighted. Packages and board technologies used in the 505iS series of phones are analyzed. (60 slides with color photos, Price: \$1,000)

Japanese Mobile Phones in 2003 and 2004

- Coaxial cable connection instead of FPC cable
- Auto focus for mobile phones
- Transition of built-in antenna
- Camera lens systems

Mobile Phone Packages

- Package pin count increasing
- Main graphics and memory
- Camera modules complexity
- LCD structures (main and sub module)
- Key pad structure
- LCD support boards and main connector
- Motherboard structure analysis

Mobile Phone Models

- NEC 505iS
- Mitsubishi 505iS
- Panasonic 505iS
- Sony 505iS
- Sharp 505iS



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Portable Equipment in Japan, December 2003

The Powerpoint presentation contains trends in digital cameras, portable games, Sony's PEG-UX50 PDA, seven mobile phones (NTT DoCoMo D505i, auA5401CA, NTT DoCoMo SO505i, DoCoMo SH505i, DoCoMo F505i, Nokia 7250, Motorola T725). Included are details of the mobile phone boards and the packages used in these products.

(61 slides with color photos, Price: \$800).

Market for Electronic Equipment and Semiconductors

- Market drivers for semiconductor industry
- Semiconductors for consumer electronics
- Semiconductors for industrial electronics

Jisso Technology for Portable Electronic Equipment

- Electronics market targeted by SoC and SiP
- Requirement for portable electronic equipment
- Pocket-size digital still camera
- Casio's Exilim main boards
- Sony's digital camera
- Polaroid PDC2070 camera
- Canon's digital camera
- Nintendo's game
- Sony's PDA

Technical Trend for Mobile Phones

- LCD panel transition
- Features and packages of mobile phones from Mitsubishi, Casio, Sony, Sharp, Fujitsu, Nokia, and Motorola.

Future Semiconductor Packaging

- New technologies
- New substrates
- New packages

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- _____ NTT DoCoMo 900i Series, July 2004 (\$1,000)
- _____ NTT DoCoMo's 505iS Series, March 2004 (\$1,000)
- _____ Portable Equipment in Japan, December 2003 (\$800)

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