

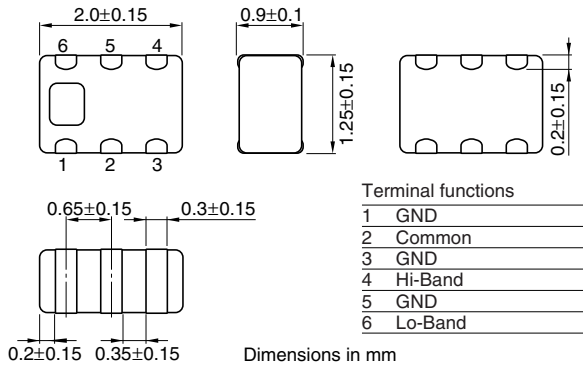
Multilayer Chip Diplexers

GSM & WCDMA800/GPS/DCS/PCS & WCDMA1900

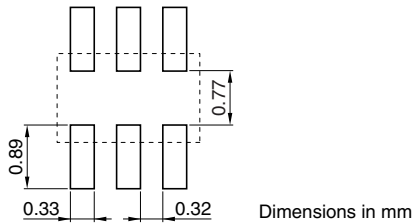
Conformity to RoHS Directive

DPX Series DPX201990DT-4051A2

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



ELECTRICAL CHARACTERISTICS

| Item | Port | Frequency range | Minimum value | Typical value | Maximum value |
|---------------------------|----------------|----------------------|----------------------|---------------|---------------|
| Insertion loss | [+25°C] | Lo-band | 800 to 945MHz (dB) | — | 0.5 |
| | [-40 to +85°C] | Lo-band | 800 to 945MHz (dB) | — | 0.65 |
| | [+25°C] | Hi-band | 1572 to 1578MHz (dB) | — | 0.5 |
| | [-40 to +85°C] | Hi-band | 1572 to 1578MHz (dB) | — | 0.65 |
| | [+25°C] | Hi-band | 1710 to 1990MHz (dB) | — | 0.55 |
| | [-40 to +85°C] | Hi-band | 1710 to 1990MHz (dB) | — | 0.7 |
| Attenuation and Isolation | Hi-band | 800 to 945MHz (dB) | 23 | — | — |
| | Lo-band | 1572 to 2000MHz (dB) | 25 | — | — |
| | Lo-band | 2400 to 2700MHz (dB) | 35 | — | — |
| Input power | | (W) | — | — | 3 |
| Temperature range | Operating | (°C) | -40 | — | +85 |
| | Storage | (°C) | -40 | — | +85 |

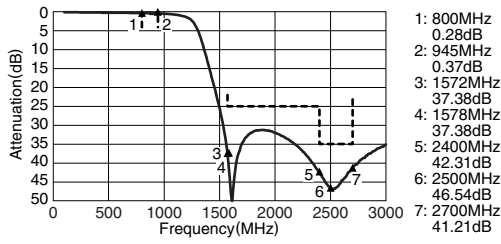
• Ta: +25°C

• Conformity to RoHS Directive: This means that, in conformity with EU Directive 2002/95/EC, lead, cadmium, mercury, hexavalent chromium, and specific bromine-based flame retardants, PBB and PBDE, have not been used, except for exempted applications.

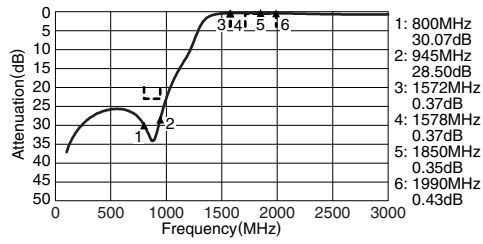
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

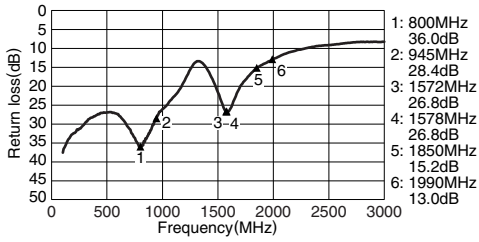
Lo-BAND PORT ATTENUATION S21



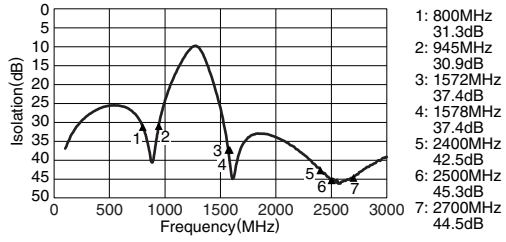
Hi-BAND PORT ATTENUATION S31



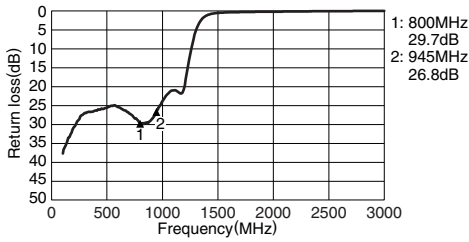
COMMON PORT RETURN LOSS S11



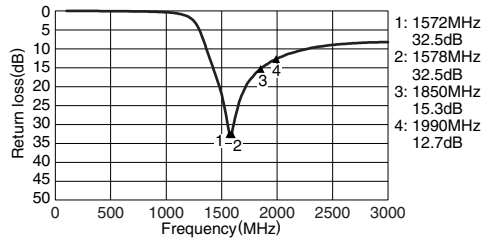
ISOLATION S23



Lo-BAND PORT RETURN LOSS S22



Hi-PORT RETURN LOSS S33



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