

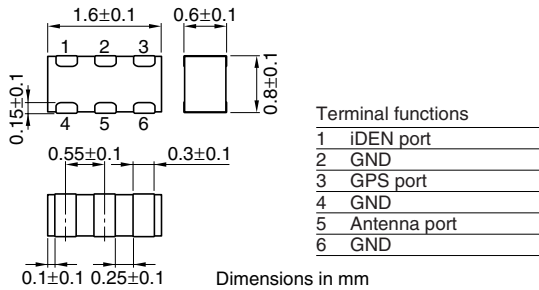
Multilayer Chip Diplexers

For EGSM & AGSM/PCS Tx-Rx-GPS

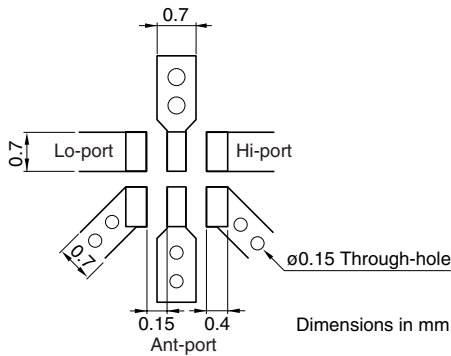
Conformity to RoHS Directive

DPX Series DPX161576DT-8011B1

SHAPES AND DIMENSIONS



RECOMMENDED PC BOARD PATTERNS



This width is 50Ω.

Micro-strip line for 0.4mm thick glass-epoxy substrate.

ELECTRICAL CHARACTERISTICS

| Item | | Minimum value | Typical value | Maximum value |
|-----------------------|-----------------|---------------|---------------|---------------|
| iDEN port to Ant port | | | | |
| iDEN pass band | MHz | 806 | — | 941 |
| Insertion loss | [25°C] | dB | — | 0.6 |
| | [-30 to +85°C] | dB | — | 0.7 |
| iDEN port return loss | dB | 14 | — | — |
| Ant port return loss | dB | 14 | — | — |
| Attenuation | 1575MHz | dB | 16 | — |
| | 1612 to 1648MHz | dB | 18 | — |
| | 1792 to 1856MHz | dB | 14 | — |
| | 2 to 3GHz | dB | 5 | — |
| GPS port to Ant port | | | | |
| GPS pass band | MHz | 1574.42 | — | 1576.42 |
| Insertion loss | [25°C] | dB | — | 0.7 |
| | [-30 to +85°C] | dB | — | 0.8 |
| GPS port return loss | dB | 14 | — | — |
| Ant port return loss | dB | 14 | — | — |
| Attenuation | 806 to 928MHz | dB | 20 | — |
| GPS port to iDEN port | | | | |
| Low band attenuation | 806 to 928MHz | dB | 20 | — |
| Attenuation | 1575MHz | dB | 16 | — |
| High band attenuation | 1612 to 1648MHz | dB | 18 | — |
| | 1792 to 1856MHz | dB | 14 | — |

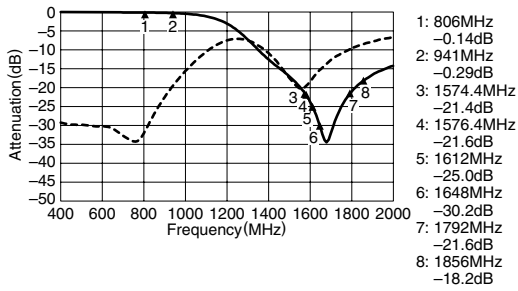
• Ta:+25°C

• 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.

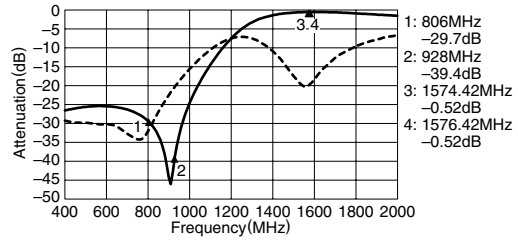
• All specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

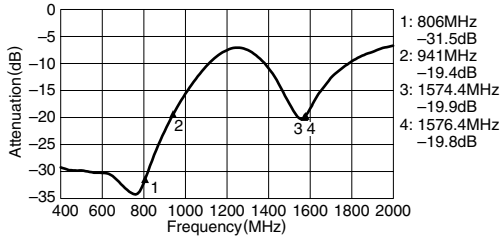
Lo-BAND PORT S21



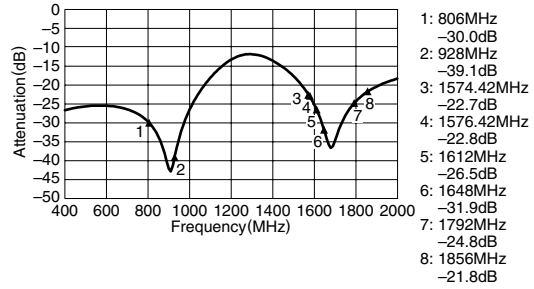
Hi-BAND PORT S31



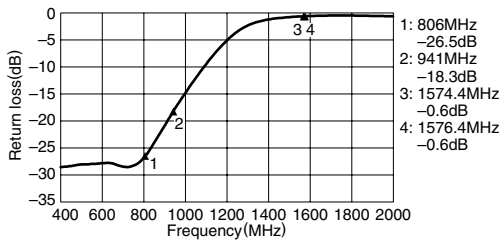
COMMON PORT RETURN LOSS S11



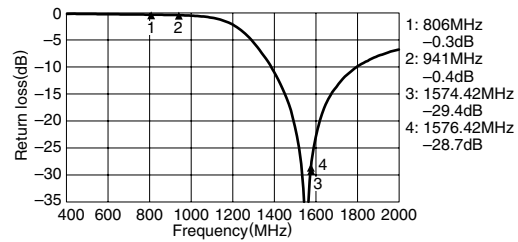
ISOLATION S23



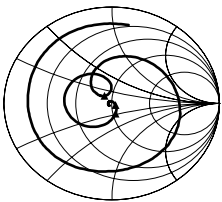
Lo-BAND PORT RETURN LOSS S22



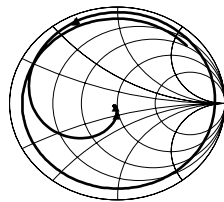
Hi-PORT RETURN LOSS S33



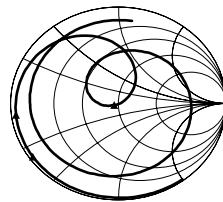
SMITH CHARTS



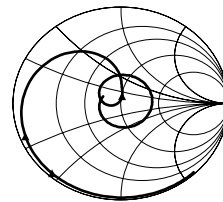
S11



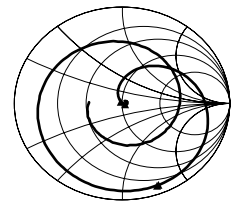
S22



S33



S21



S31