

RF Components

Diplexers

For Dual Band

DP-X32-20 Series

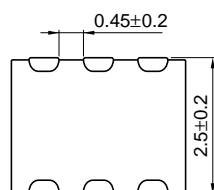
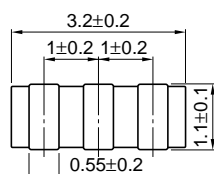
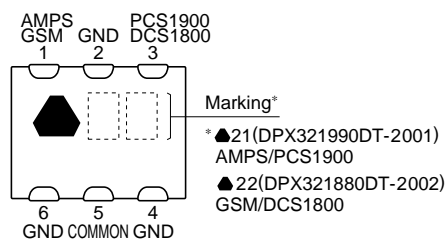
FEATURES

- This product includes a built-in high performance low pass filter that even operates in the PCS and DCS high frequency ranges, making possible attenuation of high frequencies.

APPLICATIONS

Dual band/dual mode cellular use

SHAPES AND DIMENSIONS/TERMINAL CONNECTIONS



Weight:31mg

Dimensions in mm

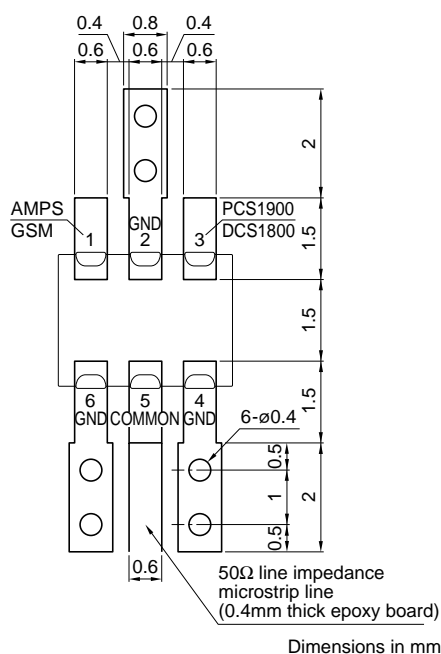


TEMPERATURE RANGES

Operating	-30 to +80°C
Storage	-40 to +85°C

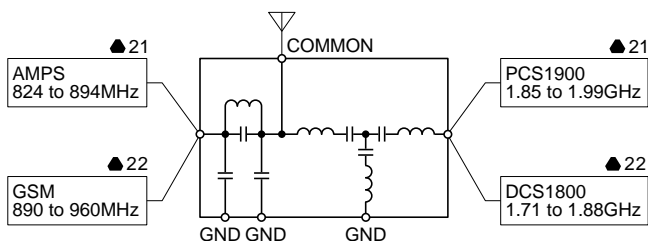
RECOMMENDED PC BOARD PATTERN

REFLOW

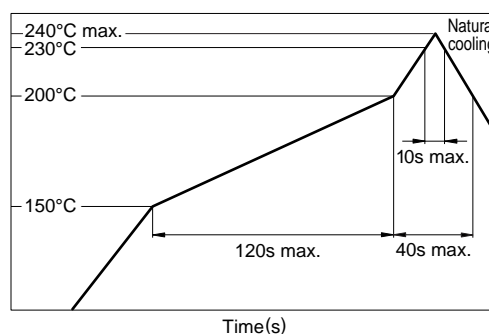


Dimensions in mm

EQUIVALENT CIRCUIT DIAGRAM



RECOMMENDED REFLOW SOLDERING CONDITIONS



ELECTRICAL CHARACTERISTICS

DPX321990DT-2001

Application	AMPS/PCS1900 Dual Band System	
Insertion loss		
COMMON to AMPS	824 to 894MHz	0.5dB max.
COMMON to PCS1900	1.85 to 1.99GHz	1dB max.
Stop band attenuation		
COMMON to AMPS	1.85 to 1.99GHz	23dB min.
COMMON to PCS1900	824 to 894MHz	23dB min.

DPX321880DT-2002

Application	GSM/DCS1800 Dual Band System	
Insertion loss		
COMMON to GSM	890 to 960MHz	0.5dB max.
COMMON to DCS1800	1.71 to 1.88GHz	1dB max.
Stop band attenuation		
COMMON to GSM	1.71 to 1.88GHz	23dB min.
COMMON to DCS1800	880 to 960MHz	23dB min.

⚠ Specifications which provide more details for the proper and safe use of the described product are available upon request.
All specifications are subject to change without notice.

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DP-X32-20 Series

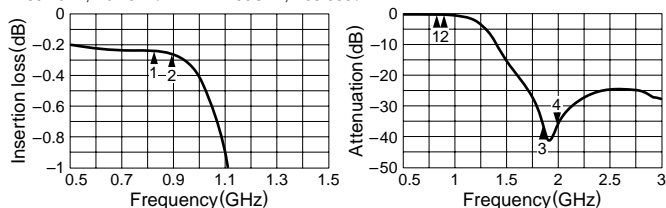
Diplexers For Dual Band

TYPICAL ELECTRICAL CHARACTERISTICS

FREQUENCY CHARACTERISTICS DPX321990DT-1001

COMMON to AMPS

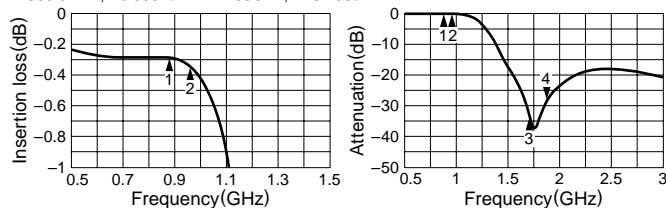
- 1: 824.0MHz, -0.2400dB
- 2: 894.0Hz, -0.2622dB
- 3: 1.85GHz, -36.83dB
- 4: 1.99GHz, -35.659dB



FREQUENCY CHARACTERISTICS DPX321880DT-1002

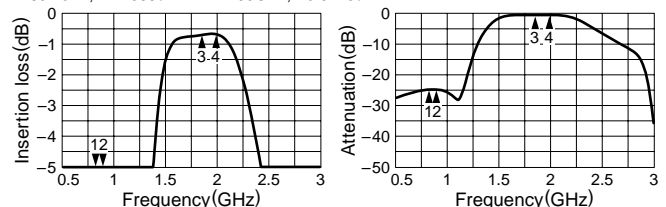
COMMON to GSM

- 1: 880.0MHz, -0.289dB
- 2: 960.0MHz, -0.3537dB
- 3: 1.71GHz, -32.486dB
- 4: 1.88GHz, -28.739dB



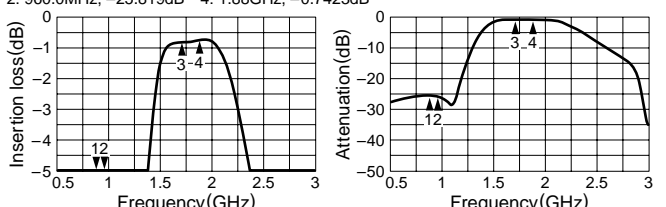
COMMON to PCS1900

- 1: 824.0MHz, -25.018dB
- 2: 894.0MHz, -24.958dB
- 3: 1.85GHz, -0.6915dB
- 4: 1.99GHz, -0.6776dB

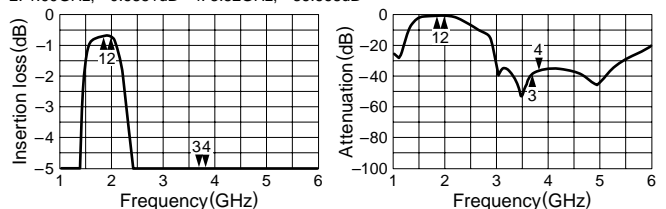


COMMON to DCS1800

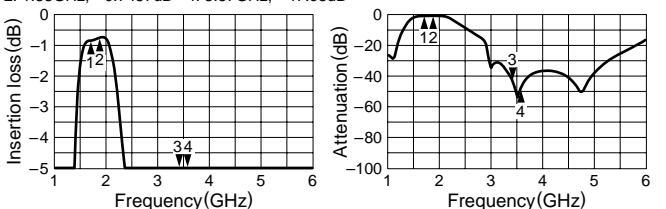
- 1: 880.0MHz, -25.468dB
- 2: 960.0MHz, -25.819dB
- 3: 1.71GHz, -0.8191dB
- 4: 1.88GHz, -0.7423dB



- 1: 1.85GHz, -0.6904dB
- 2: 1.99GHz, -0.6851dB
- 3: 3.7GHz, -39.193dB
- 4: 3.82GHz, -36.668dB



- 1: 1.71GHz, -0.8384dB
- 2: 1.88GHz, -0.7457dB
- 3: 3.42GHz, -44.949dB
- 4: 3.57GHz, -47.95dB



APPLICATION EXAMPLE

