

Features

- Combines GSM, DCS, and UMTS Bands.
- 200W high input power.
- Low Loss – maximizes system performance.
- Good isolation – minimizes interference.
- Compact – minimizes space requirements

Product Description

The Comba range of diplexers provides compact and cost effective solutions for combining two different input frequency bands into one common output. The CM-2G3GNN00 is a wideband diplexer designed to combine existing GSM and DCS services with UMTS network. The product is particularly suited for integrating new UMTS services into existing 2G in-building antenna distribution systems, thereby minimizing cost and increasing speed of rollout.



Technical Specifications

Electrical

Frequency Range – [MHz]	
- Low Band	800-960 / 1710-1880
- High Band	1920-2170
Insertion Loss – [dB]	
- Low Band : 800-960 MHz	< 0.4
- Low Band : 1710-1880 MHz	≤ 0.6
- High Band : 1920-2170 MHz	≤ 0.6
Input Power – [W]	≤ 200
3rd Order Intermod – [dBc] (at 2x43dBm carrier at either input)	-153
Pass Band Ripple (typ.) – [dB]	
- Low Band : 800-960 MHz	≤ 0.3
- Low Band : 1710-1880 MHz	≤ 0.4
- High Band : 1920-2170 MHz	≤ 0.4
Isolation Between Bands – [dB]	
- 800-960 / 1920-2170	≥ 60
- 1710-1880 / 1920-2170	≥ 60
Group Delay – [nsec]	< 100
Return Loss – [dB]	≥ 18
Impedance – [ohm]	50

Mechanical

Dimension (excl. conn) LxWxH – [mm]	198x186x40
Housing Material	Aluminum
Finish	Grey Paint
Weight – [kg]	1.8
Connector Type - Input	2x N-Female
Connector Type - Output	1x N-Female
Mounting Holes, at bottom	4 x 3mm dia
Temperature Range – [°C]	-35 to +70
Operating Humidity – [%]	< 95
Environmental Class	Indoor

Mechanical Outline Drawing

