



GSM/GPRS & 3G PIFA Antenna

Key Features

- Compact size
- Production ready
- Omni directional



Additional Considerations

- Reflow solder process only
- Excellent gain at higher frequencies

General Description

The Echo12 GSM/GPRS/3G ceramic chip antenna provides a reliable, solderable antenna for today's wireless modules operating on quad band GSM / GPRS frequencies or 3G networks.

With its small size, this chip antenna is suitable for small form factor applications and gives a high gain comparative to its size in the upper frequency band.

Easy to layout and use in production, full documentation is available to provide design layout guidelines including a recommended matching circuit. The PCB antenna comes in a tape and reel package and is reflow solderable.



2G GSM







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Electrical Specifications

Operating Temperature Range: Impedance:		-35 - +85°C 50 Ohm
VSWR:		3.0
Operating Frequencies:		824 - 960 1710-2170MHz
Polarization:		Linear

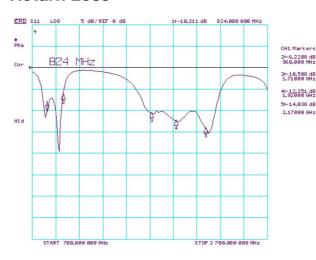
Mechanical Specifications

Dimensions:	24 x 5.5 x 4.4mm
Mounting	Embedded
Method:	

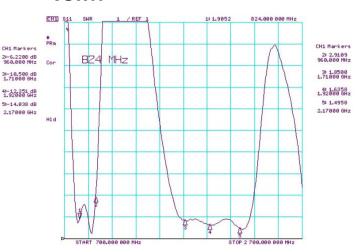
Electrical Characteristic

Antenna matching on the reference test board Penta Band (GSM 850 & 900, DCS, PCS)

Return Loss



VSWR

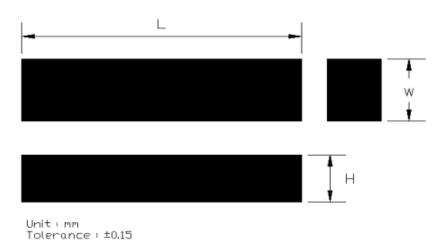






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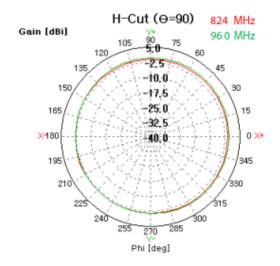
Appearance and Dimensions



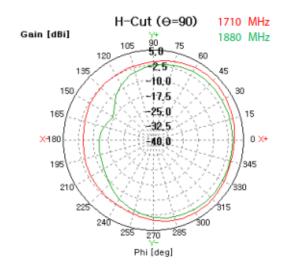
L(Length)	24.0
W(Width)	5.5
H(Height)	4.4

Radiation Patterns

GSM850 & GSM900 - H Plane



DCS (GSM 1800)- H Plane

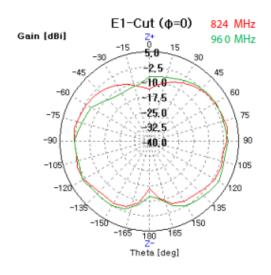




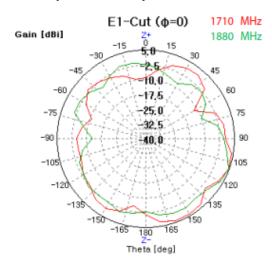


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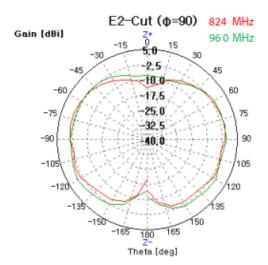
GSM850 & GSM900 - E1 Plane



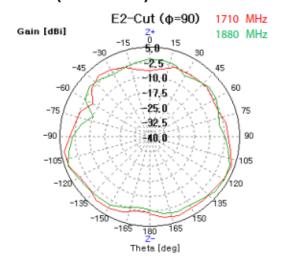
DCS (GSM 1800) - E1 Plane



GSM850 & GSM900 - E2 Plane



DCS (GSM 1800) - E2 Plane

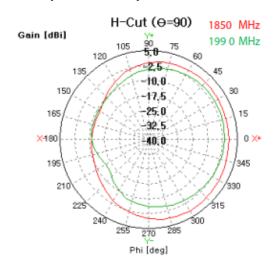




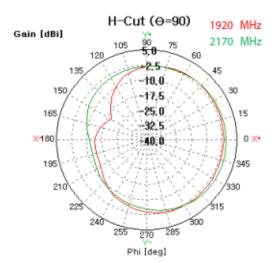


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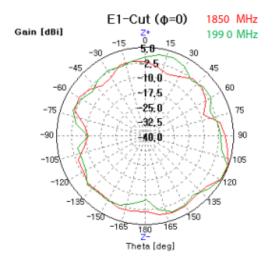
PCS (GSM 1900) - H Plane



UMTS - H Plane



PCS (GSM 1900) - E1 Plane



UMTS - E1 Plane

