

Model 50-918-2 M I

Base Station Dual-Band Antenna (GSM,DCS,DECT,UMTS)



Installation Manual

DESCRIPTION

Dual-band base station antenna conceived for GSM 900 & 1800, DCS 1.9, DECT and UMTS systems working on 880-960 MHz and 1710-2170 MHz. The radiant dipole is realized on Microstrip PCB and protected by a glassfiber tube. SO-918-2 M1 is supplied with RG 58 cable directly connected and SMA-male (other type on request).

SPECIFICATIONS

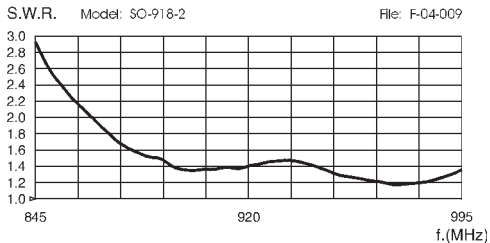
Electrical Data

Type	:	Dipole
Frequency Range	:	880-960 MHz 1710-2170 MHz
Impedance	:	50 Ω Unbalanced
Polarization	:	Linear Vertical
Gain	:	0 dBd, 2.15 dBi at both band
3 dB Beamwidth Vertical	:	E-plane 50°
Beamwidth Horizontal	:	H-plane 360° Omnidirectional
Downtilt	:	0°
V.S.W.R. in Bandwidth	:	$\leq 2:1$ both bands
Max Power	:	20 Watts (CW) at 50° C
Feed System / Position	:	Direct / Base
Cable Length / Type	:	5 m / RG 58 C/U, other on request
Connector type	:	SMA-male other type on request

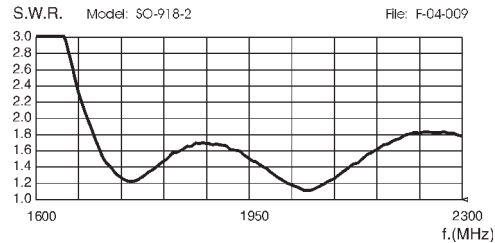
Mechanical Data

Housing Materials	:	Aluminium, Chromed brass, PCB, Stainless Steel
Radome Material	:	White Glassfiber
Wind Load / Resistance	:	11 N at 150 Km/h / 200 Km/h
Wind Surface	:	0.01 m ²
Height (approx.)	:	325 mm
Weight (approx.)	:	350 gr
Operating Temperature	:	-20° C to 80° C

TYPICAL S.W.R. RESPONSE



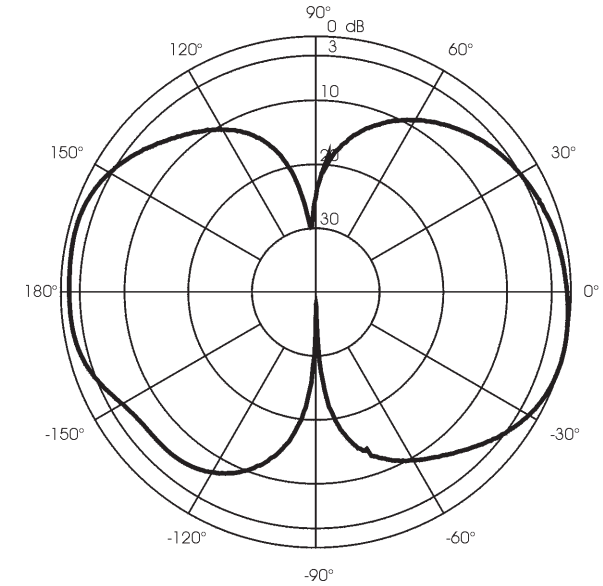
TYPICAL S.W.R. RESPONSE



TYPICAL RADIATION PATTERN in E-plane at 880 MHz

File: E-04-009

Scale: linear



TYPICAL RADIATION PATTERN in E-plane at 1710 MHz

File: E-04-009

Scale: linear

