

DIRECTIONAL DUAL-BAND Antenna for GSM 900 & 1800 / PCS / DECT / UMTS

SPB-918-10 p/n 2110203.00

Electrical Data:

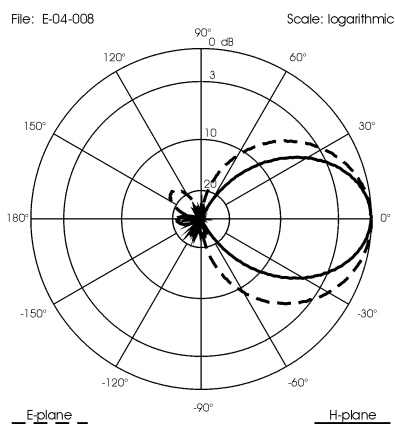
Type:	Planar Reflector
Frequency Range:	880-960 MHz & 1710-2170 MHz
Impedance:	50 Unbalanced
Polarization:	Linear Vertical
Gain:	9.4 dBi at 900 MHz; 8.7 dBi at 1.8 GHz
3 dB Beamwidth Vertical:	E-plane 68° at 920; 62° at 1920 MHz
3 dB Beamwidth Horizontal:	H-plane 49° at 920; 72° at 1920 MHz
Downtilt:	0°
Front to back ratio:	20 dB in bandwidth
V.S.W.R. at res. Freq.:	1.6:1 TX band 900; 2:1 RX band 900 1.5:1 from 1.71 to 2.02 GHz 2.0:1 from 2.02 to 2.17 GHz
Max Power:	20 Watts (CW) at 50° C
Lightning protection:	DC-ground
Cable lenght / Type:	30 cm, other lenght on request / RG 58
Connector:	SMA-male or female, other type on request

Mechanical Data:

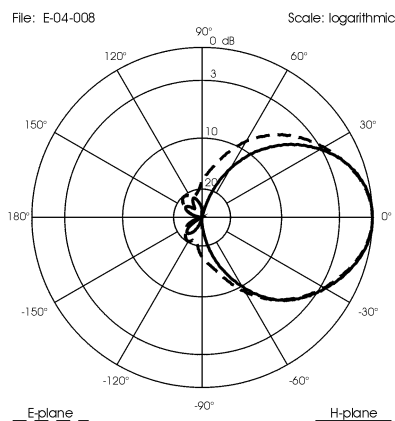
Housing Materials:	PCB, Aluminium, ABS
Radome Material:	Grey ABS UV Stabilized
Wind Load / Resistance:	134 N at 150 Km/h / 160 Km/h
Wind Surface:	0.08 m ²
Dimensions (approx.):	305 x 230 x 66 mm without bracket
Weight (approx.):	1100 gr
Operating Temperature:	-20° C to +80° C
Mounting Mast:	25-42 mm



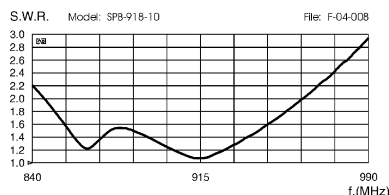
TYPICAL RADIATION PATTERN at 920 MHz



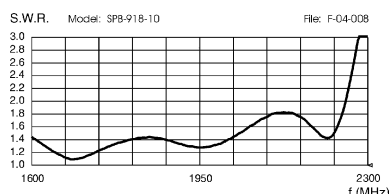
TYPICAL RADIATION PATTERN at 1920 MHz



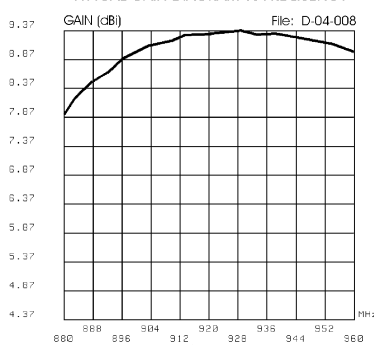
TYPICAL S.W.R. RESPONSE



TYPICAL S.W.R. RESPONSE



TYPICAL GAIN DIAGRAM vs FREQUENCY



TYPICAL GAIN DIAGRAM vs FREQUENCY

