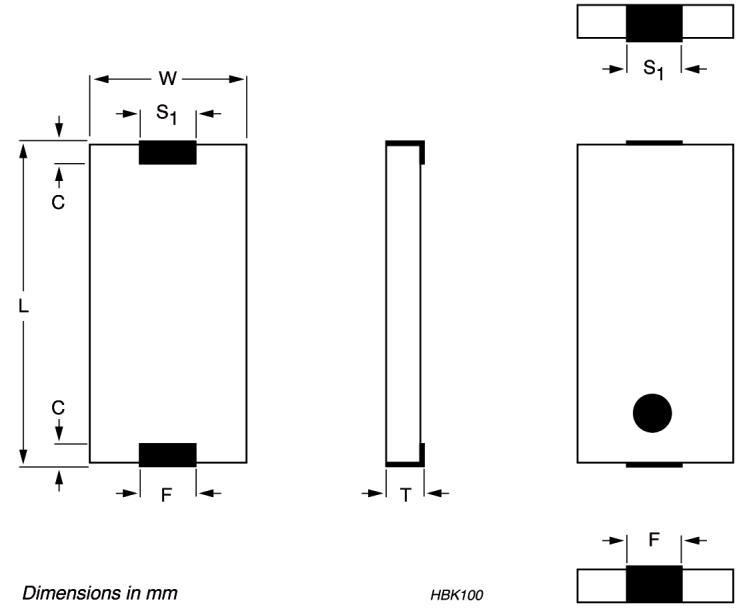
MECHANICAL DATA



For dimensions see Table 1.

Fig.1 Dimensional outline.

Physical dimensions

Table 1 Antenna dimensions

L	W	T	F	C	S_1
–	–	–	**feed termination**	–	**NC solder termination**
Dimensions in millimetres					
8.0 ±0.25	3.5 ±0.2	0.9 ±0.2	1.25 ±0.25	0.5 ±0.3	1.25 ±0.35

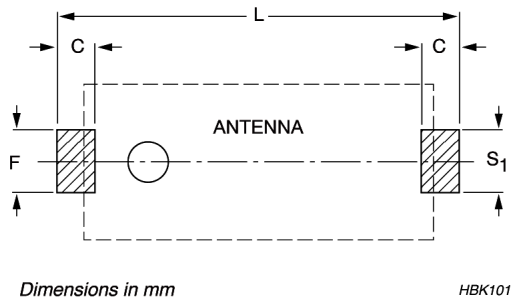
Device marking

CENTER FREQUENCY (GHZ)	MARKING CODE
2.45	no marking
2.60	6
2.70	7

ELECTRICAL CHARACTERISTICS

DESCRIPTION	VALUE
Center frequency	2.45, 2.60 and 2.70 GHz
Bandwidth	100 MHz
Gain	0 dBi max.
VSWR	2 max.
Polarization	Linear
Azimuth beamwidth	Omni-directional
Impedance	50 Ω
Power dissipation	1 W
Operating temperature	−55 to +125 °C
Terminations	NiSn
Resistance to soldering heat	260 °C, 10 sec.

FOOTPRINT DIMENSIONS



For dimensions see Table 2.

Fig.2 Recommended dimensions of solder lands.

Physical dimensions

Table 2 Recommended solder land pattern

L	F	C	S_1
–	feed pad	–	NC mounting pad
Dimensions in millimetres			
9.0 ±0.10	1.40 ±0.10	0.90 ±0.10	1.40 ±0.10

STANDARD TEST BOARD FOR RADIATION PATTERN AND SWR MEASUREMENTS

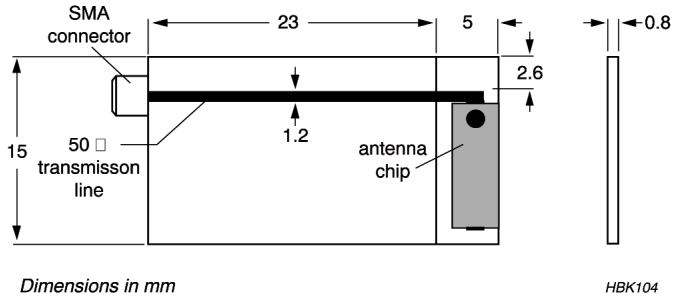
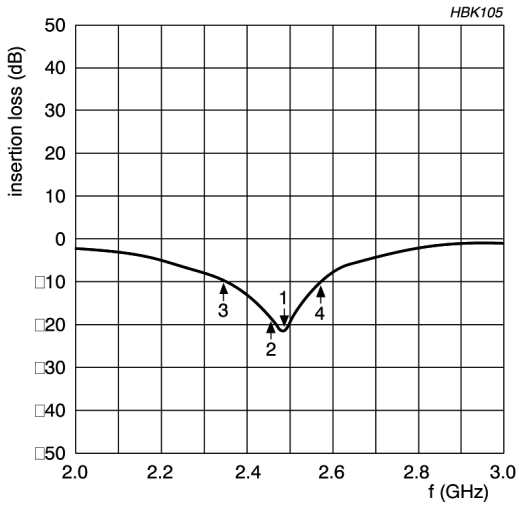
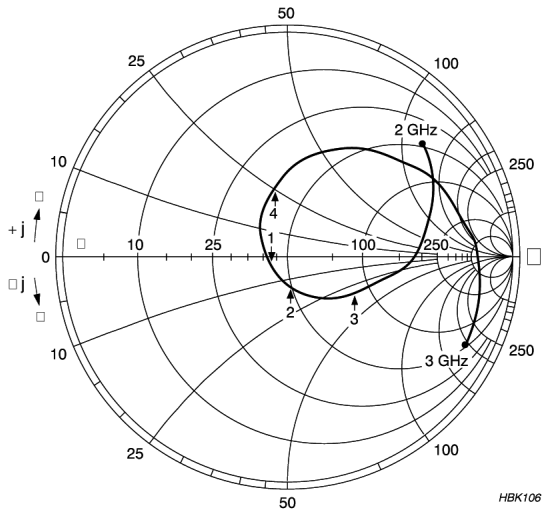


Fig.3 Typical FR4 test board.

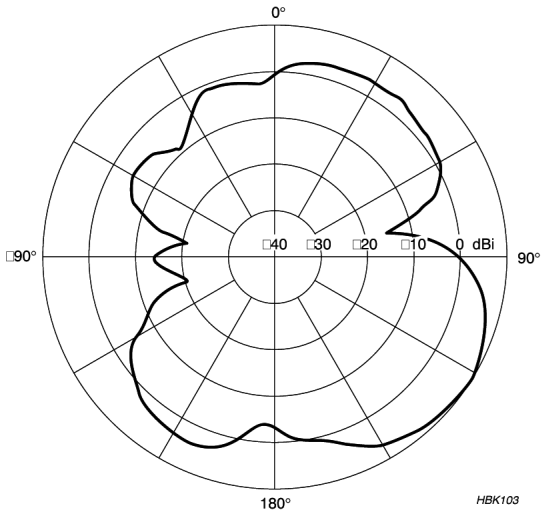




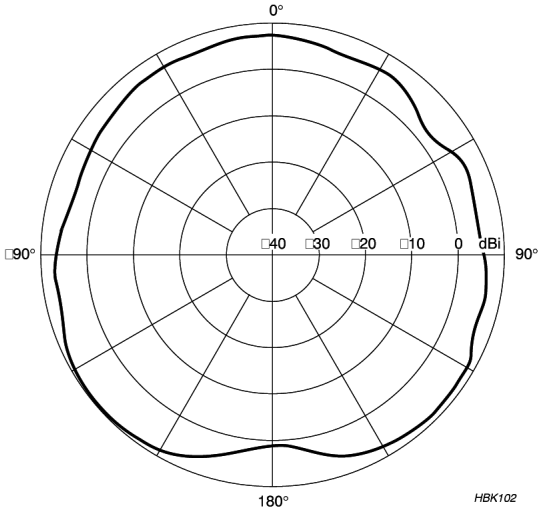
CH1 Marker data:
Min.
BW: .225952238 GHz
Cent: 2.4551577144 GHz
Q: 10.866
1 loss: −21.413 dB.

Marker data:
1: 42.73 Ω/−3.05 Ω; f = 2.485 GHz
2: 47.69 Ω/−11.76 Ω; f = 2.455 GHz
3: 82.08 Ω/−28.19 Ω; f = 2.34 GHz
4: 37.24 Ω/−25.78 Ω; f = 2.568 GHz.

Fig.4 Typical SWR and characteristic impedance measurements.



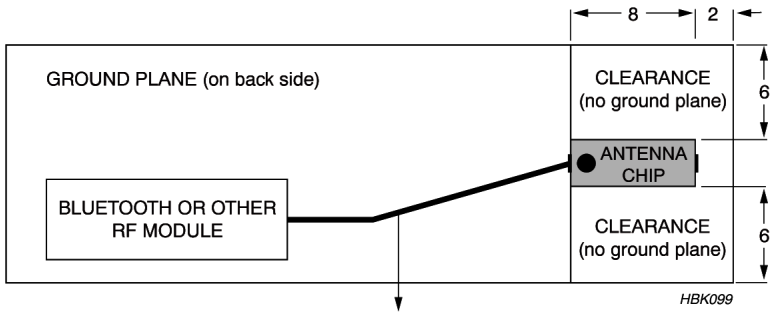
E-plane



H-plane

Fig.5 Typical radiation patterns.

APPLICATION EXAMPLE



Dimensions in mm

50 □ transmisson line
(micrstrip or coplaner waveguide)

Note:
The ground termination can be optionally connected to RF ground.

Fig.6 Suggested layout.