

2.3 GHz Satellite Radio Ceramic Chip Antenna

Ground cleared under antenna 4.00 x 4.25 mm. Pulse Part Number: W3017



Features

- Omni directional radiation
- Low profile
- Compact size W x L x H (3.2 x 1.6 x 1.1 mm)
- Low weight (33 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS Compliant Product

Applications

- Satellite radio
- 2.320 – 2.345 GHz

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on test board (GP) size and antenna positioning on GP and Ground Clearance area size.

2.3GHz Satellite Radio

Typical performance (Test board size 80 x 37 mm, PWB ground clearance area 4.00 x 4.25 mm)

Frequency Range [MHz]	LHCP Gain [dBic]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [°C]
2320–2345	-0.1 (Peak) -0.6 (Band edges)	2.7 (Peak) 2.4 (Band edges)	80 / -1.0 (Peak) 75 / -1.2 (Band edges)	-12	50	-40 to +85

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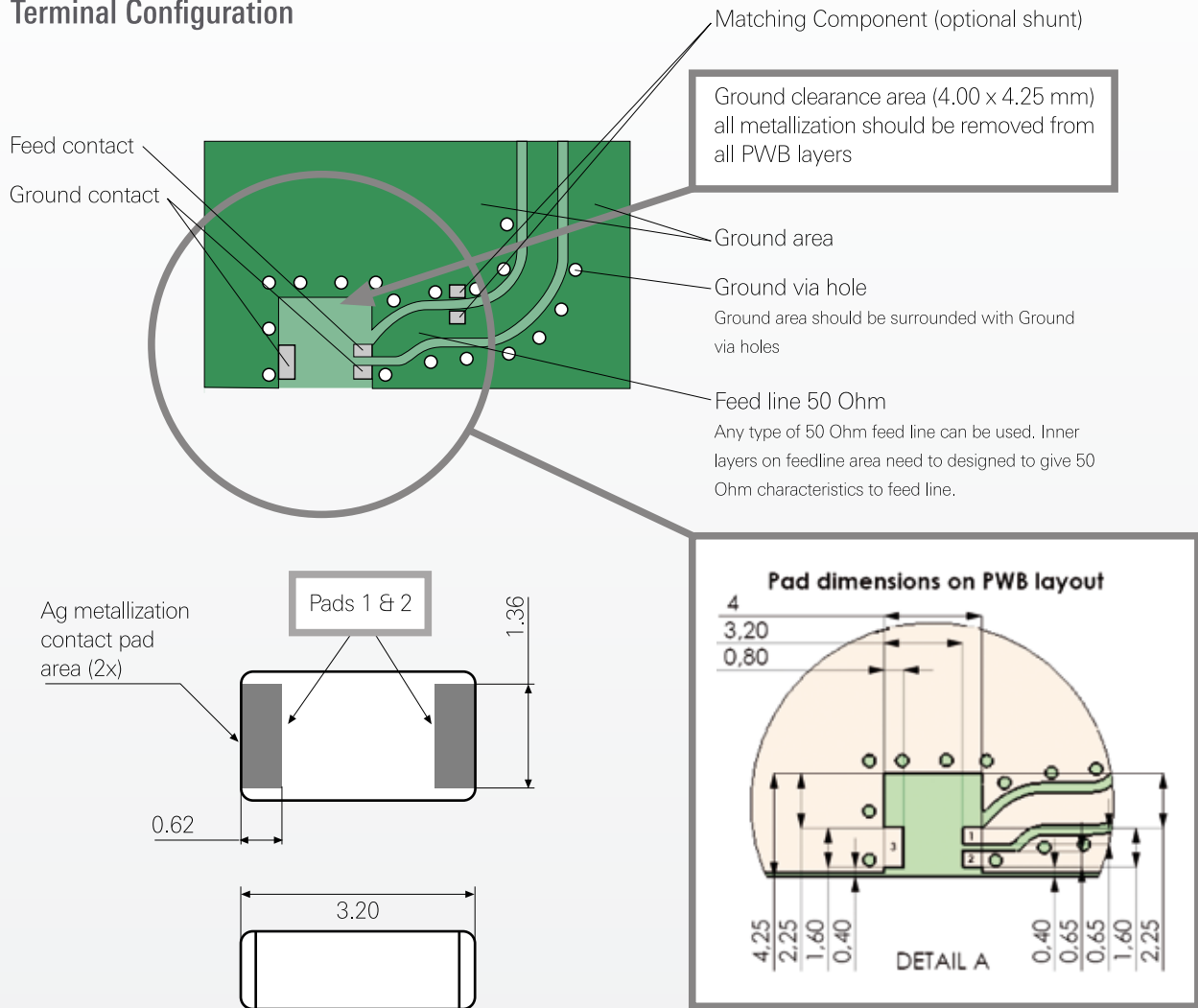
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Terminal Configuration



Antenna features

No.	Terminal name	Terminal Dimensions
1	Feed / GND	0.62 x 1.36 mm
2	Feed / GND	0.62 x 1.36 mm

Antenna is symmetrical.

Either of terminals 1 or 2 can be feed / GND

PWB features

No.	Terminal name	Terminal Dimensions
1	Feed	0.8 x 0.65 mm
2	GND	0.8 x 0.65 mm
3	GND	0.8 x 1.60 mm

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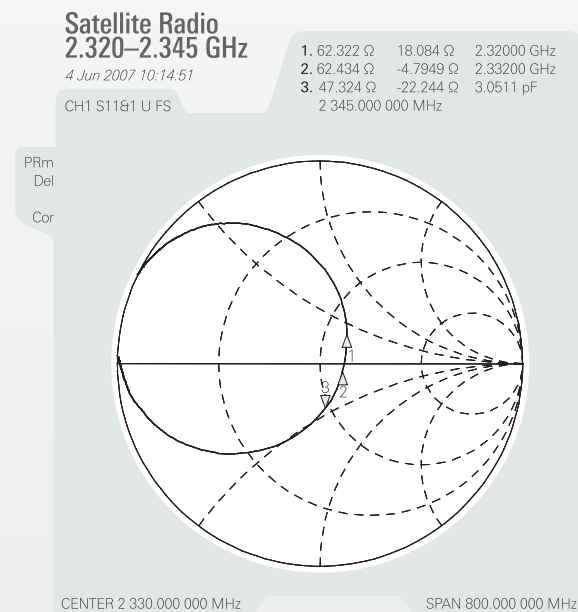
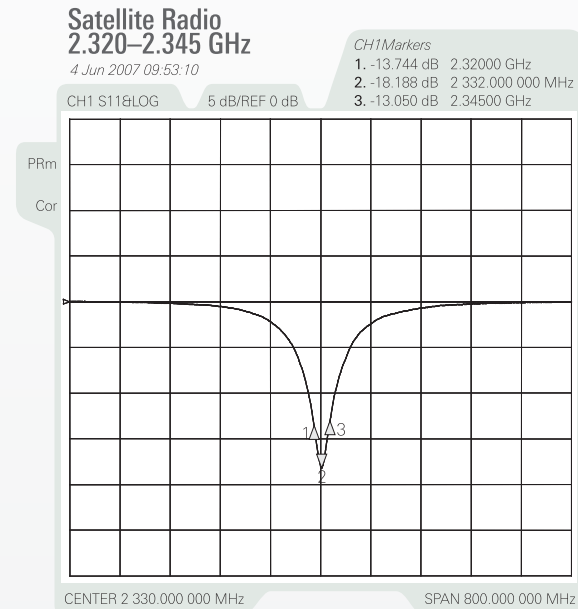
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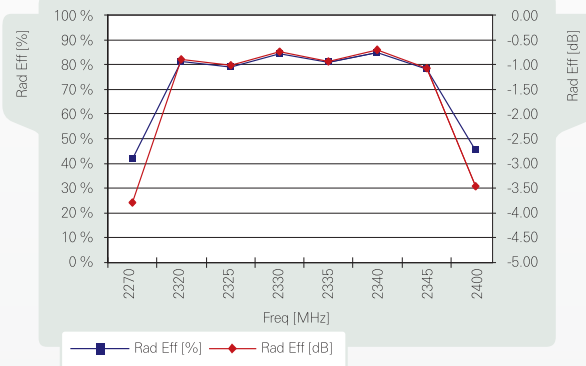
Typical Electrical Characteristics (T=25 °C)

Measured on the 80 x 37 mm test board without matching circuit and in antenna position 1 on PWB layout.

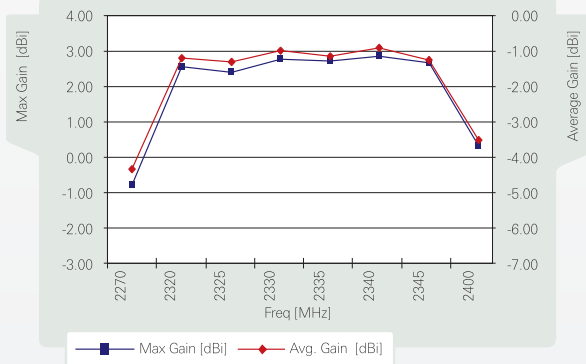
Typical Return Loss S11/ impedance, free space efficiency and gain.



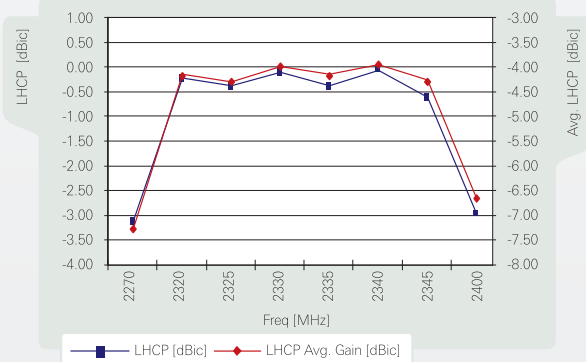
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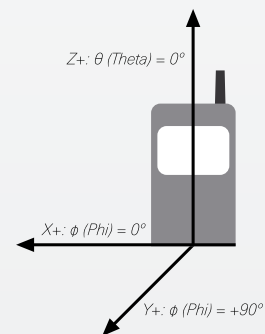
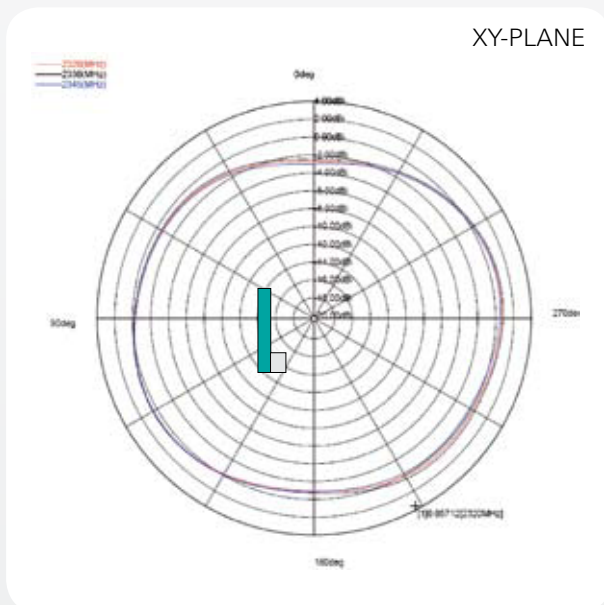
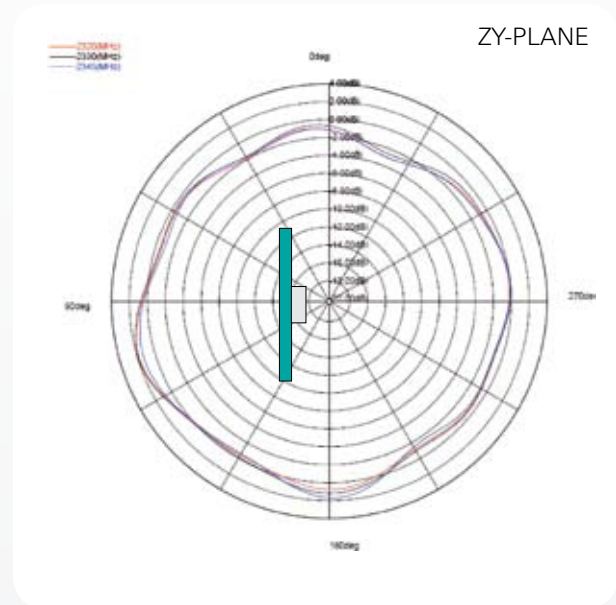
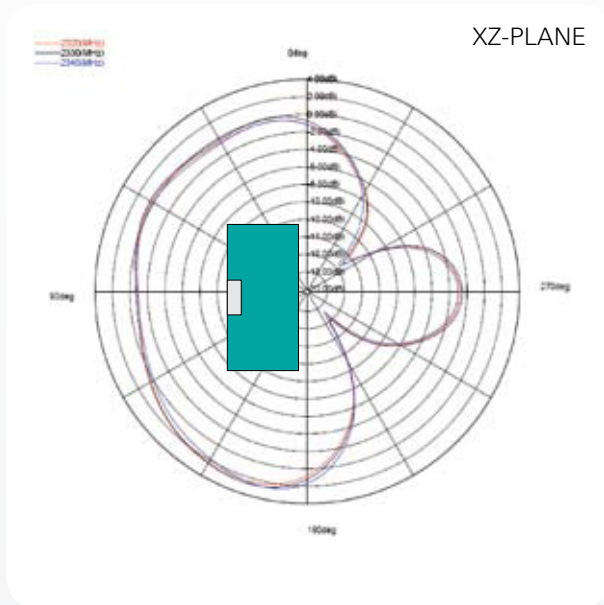
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Typical Free space Radiation Patterns



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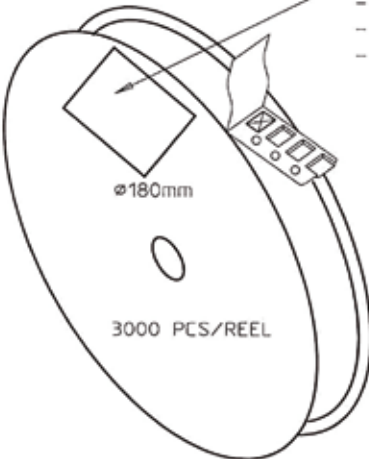
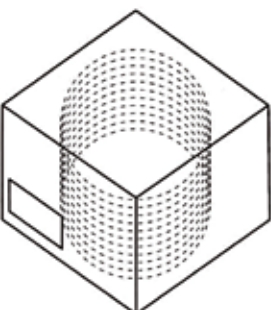
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Packing Form

REEL LABEL INFORMATION:

- TRACEABILITY
- QUANTITY
- PRODUCT CODE

CARRIER TAPE H85-00125
width=8,00 depth=1,22
COVER TAPE H85-00126
width=5,60

LENGTH OF TAPE:

- Leader section: 50 empty cavities before component section
- Trailer section: 25 empty cavities after component section.

Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.

BOX H85-00128 (182x182x132)	1 pcs
- LABEL	1 pcs/BOX
REEL H85-00127 (D180, W12)	10 pcs
- REEL LABEL	1 pcs/REEL

MATERIAL						
HANDLINGS						
LK Products		RATIO	DRWN	010305	PeHa	H
			DGNER			G
			CHKD			E
			APPRD			E
PRODUCT		APPRD BY		D		
H90-OY116-F01P01				C		
DENOMINATION				B		
PACKING FORM				A		
		VERSION		MOD/DATE/NAME		

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