

Product: CQC24/5.5/4.4

Product Order Code:

BM-02557

Embedded Ceramic Chip Antenna

ISM, GSM (2G, 3G), DCS PCS, UMTS

- High performance surface mounted ceramic chip antenna
- RoHS 2011/65/EU & RoHS3 (2015/863/EU compliant)
- Request samples for test & evaluation via enquiry@bloomice.com



Technical Data

Dimensions	24mm x 5.5mm x 4.4mm	
Weight	6g	
Construction Materials	Ceramic	
Mounting Arrangement	Surface Mounted Ground Plane Dependent	
Temperature Range	-40 to +85 Degree C	
Protection Class	Embedded	
ISM, GSM (2G, 3G), DCS, UMTS		
Frequency Range	ISM + GSM 900	868MHz, 915MHz, 925MHz, 960MHz
	DCS + GSM 1800	1710MHz, 1785MHz, 1800MHz, 1805MHz, 1850MHz
	PCS	1880MHz, 1910MHz, 1930MHz, 1990MHz 1920MHz,
	UMTS	1980MHz, 2110MHz, 2170MHz
Impedance	50 Ohm	
Polarisation	Linear	
Peak Gain	ISM + GSM 900	@ 868MHz - 960MHz: 1.56dBi @
	DCS + GSM 1800	1710MHz - 1850MHz: 5.25dBi @
	PCS	1880MHz - 1990MHz: 5.10dBi @
	UMTS	1920MHz - 2170MHz: 5.52dBi
Radiation Pattern	Omni-Directional	
Max Power @ 30 Celsius	ISM + GSM 900	25 Watts @ 868MHz - 960MHz
	DCS + GSM 1800	25 Watts @ 1710MHz - 1850MHz
	PCS	25 Watts @ 1880MHz - 1990MHz
	UMTS	25 Watts @ 1920MHz - 2170MHz
Return loss (VSWR)	<2.5:1 (All Featured Bands)	
Typical Sheer Force Test	20 kgf According to IEC62137-1-2-2007	

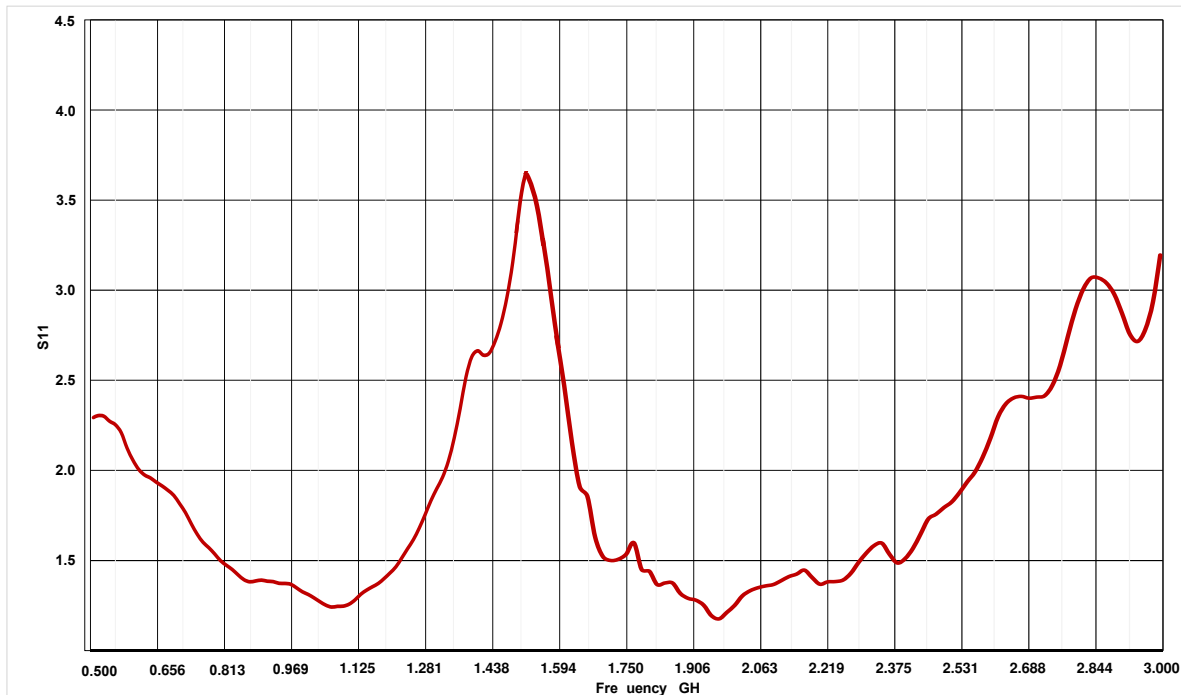
dBi: Referenced to an isotropic radiator

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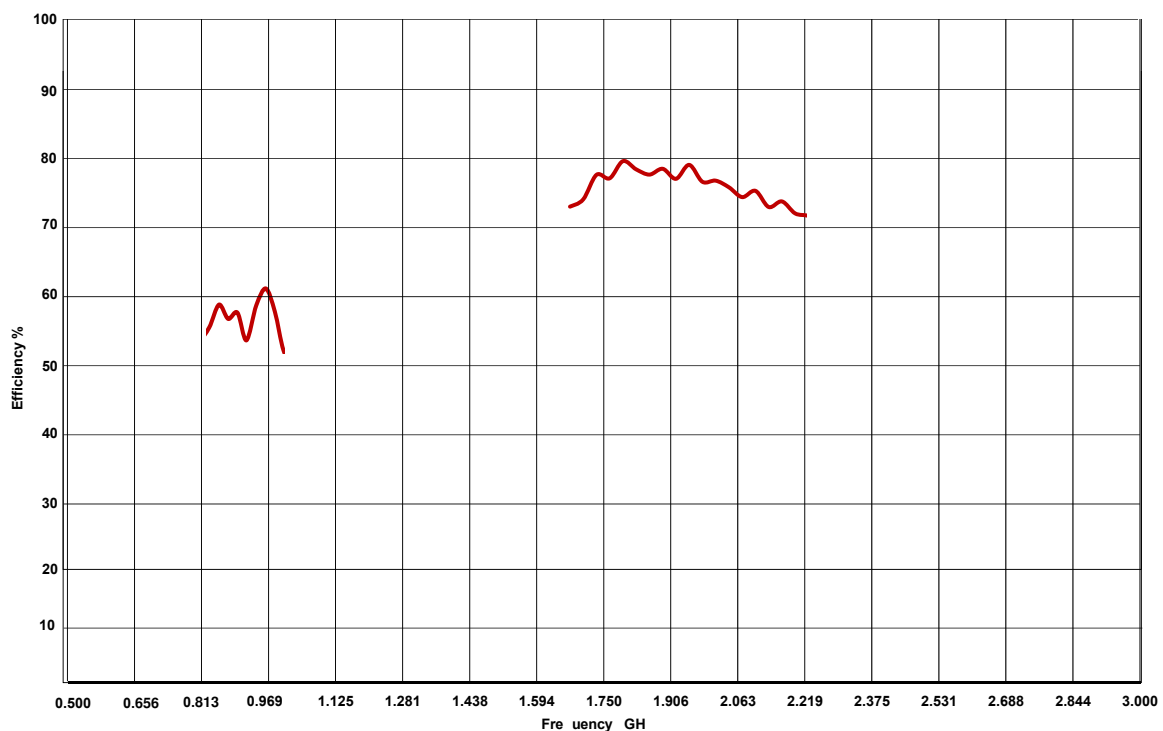
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Typical VSWR Data



Radiated Efficiency

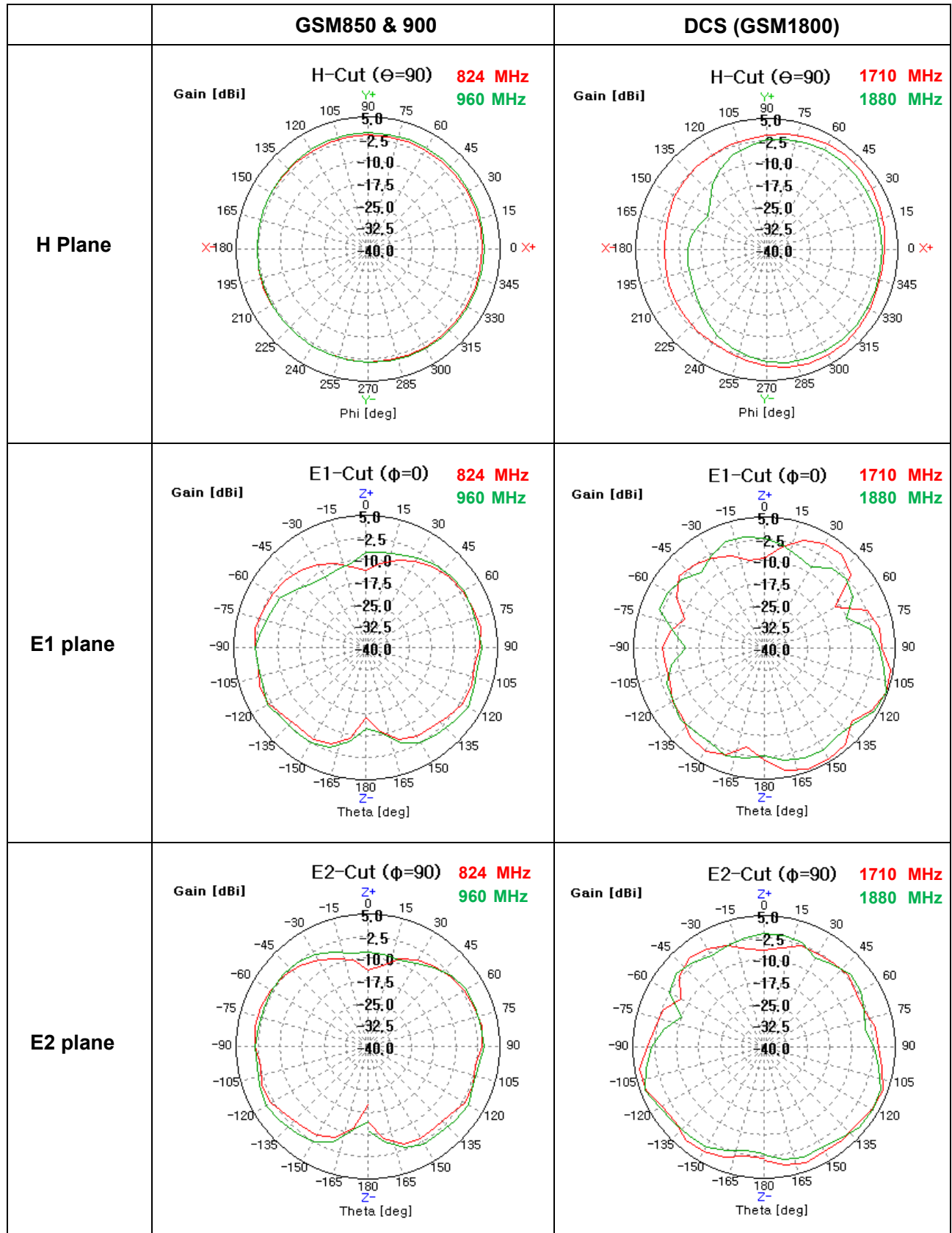


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Radiation Patterns

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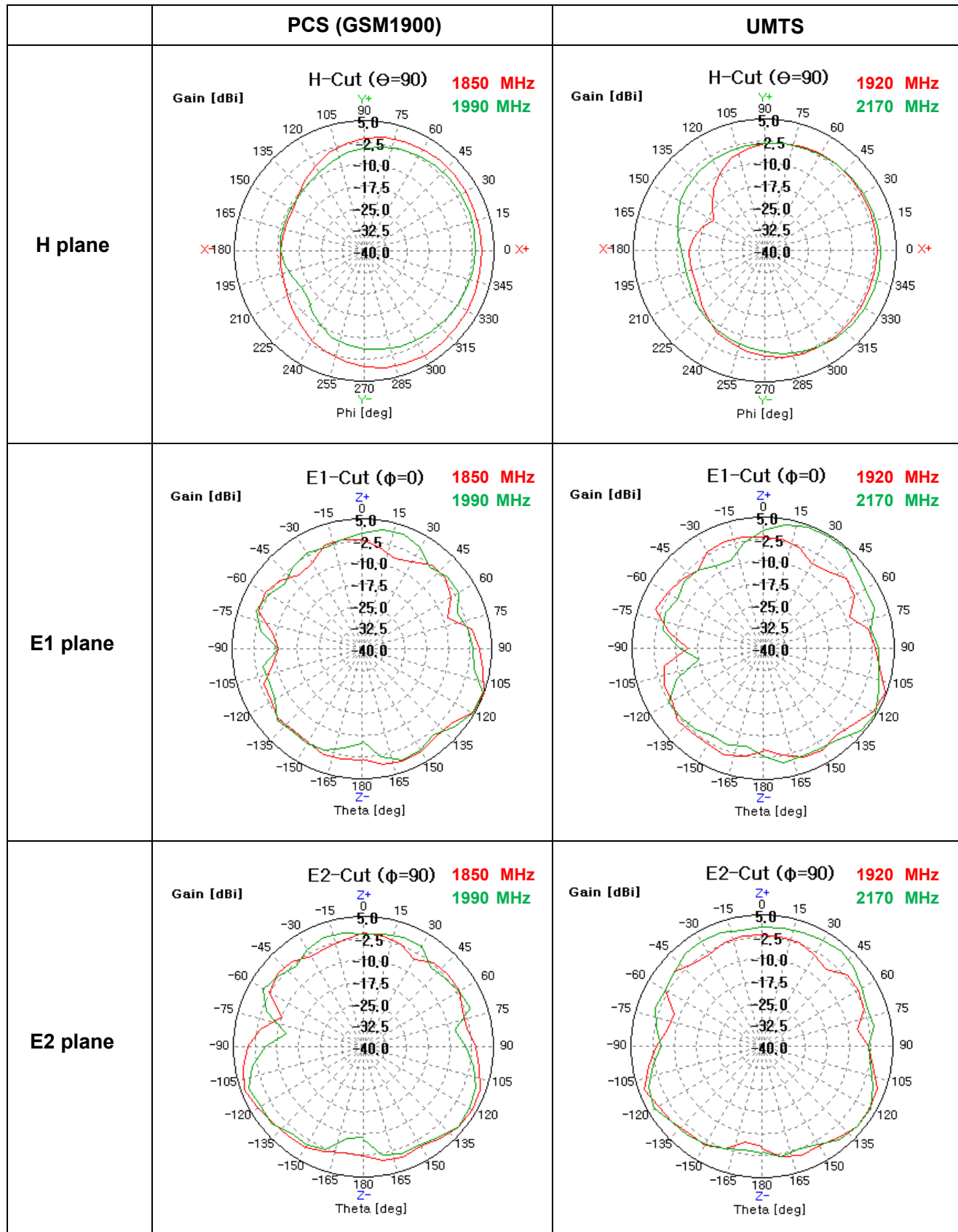


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Radiation Patterns

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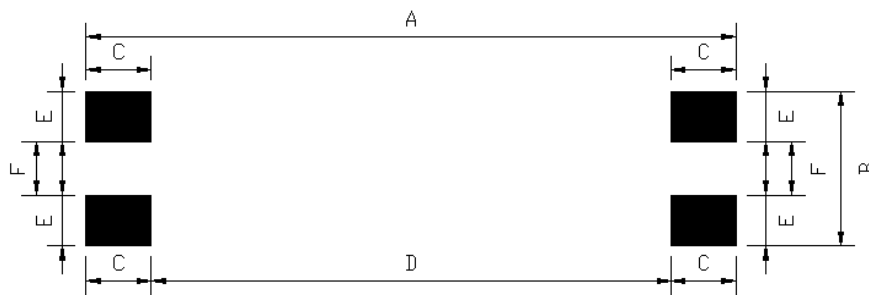
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Dimension Data



L (Length) mm	24.0	0.15
W (Width) mm	5.5	0.15
H (Height) mm	4.4	0.15

Soldering Land Pattern



A	25.0
B	5.5
C	2.3
D	20.4
E	1.8
F	1.9

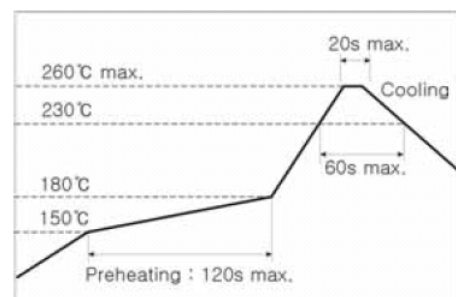
Dimensions: mm

Soldering Profile

This product is designed for reflow soldering only. Do not use flow (wave) soldering).

Solder paste : Sn/Ag/Cu:96.5/3.0/0.5

- ① Use non-activated flux (Cl content 0.2% max.)
- ② Follow the recommended soldering conditions to avoid damage.
- ③ Reflow-cycle is max. 3 times.

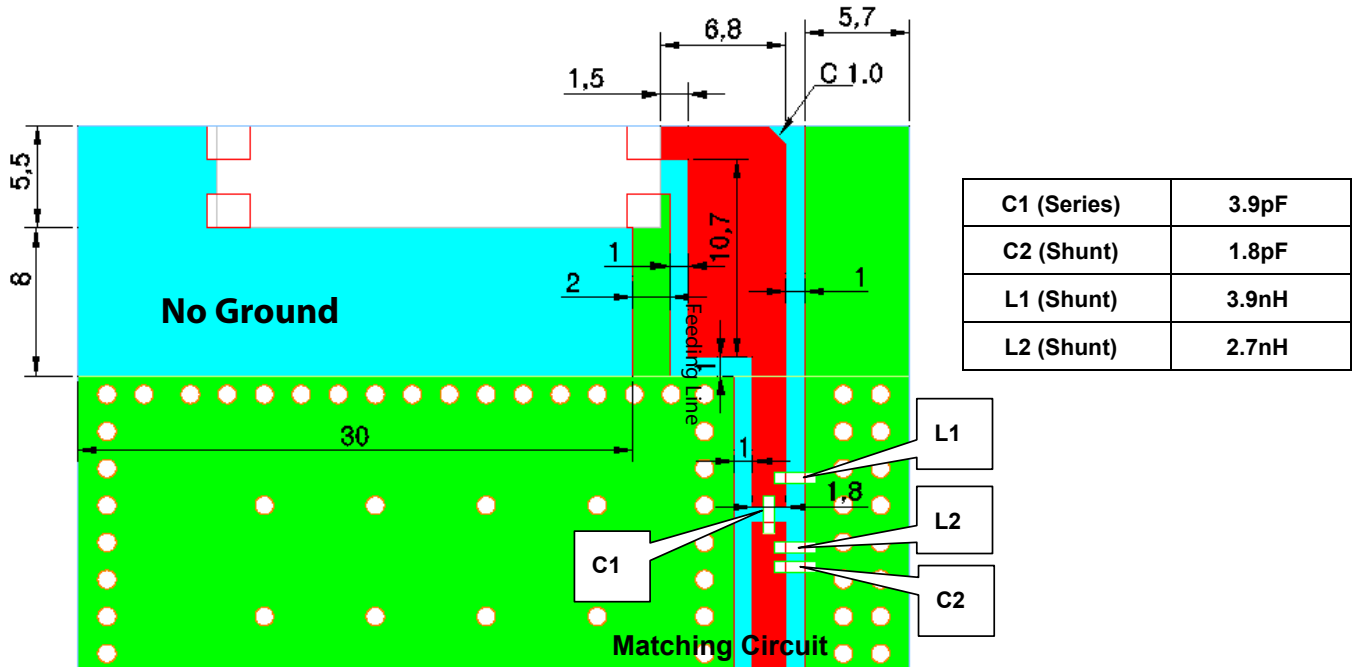


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Free Space Size

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Packing Tape Data

