

Antenne 5G 4G-LTE 3G/2G LPWA fibre de verre omnidirectionnelle | 0.5 à 3.1dBi

Référence GC-e71

Gain	0.5dBi à 3.1dBi
Dimensions (mm)	40 × 8 × 3
T° de fonctionnement	-40°C à +85°C

Cette antenne Compacte et de faible puissance, elle est conçue pour les normes 5G, 4G-LTE, FirstNet, CBRS, LPWA, CAT-X, CAT-Mx, CAT-NBx, NB-IoT, 3G, 2G

UNE CONNECTIVITÉ SANS FIL FIABLE, INTEROPÉRABLE ET ININTERROMPUE

Avec un diagramme de rayonnement omnidirectionnel, l'antenne GC-e71 fonctionne dans la gamme de fréquences 617 MHz - 5925 MHz.

Elle est idéale pour les transmissions sans fil à courte portée et les dispositifs d'automatisation dans les secteurs de la maison, du bureau, de la fabrication, des applications industrielles, scientifiques, médicales (ISM) automobile...

La conception en fibre de verre de qualité offre à la GC-e71 une grande durabilité et lui permet de résister à des températures comprises entre -40C et +85C.

CARACTÉRISTIQUES

NORMES	5G NR/4G-LTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G/2G			
FRÉQUENCE(S) (MHZ)	617-960	1427-2690	3300-5000	5150-5925
BANDE(S) (MHZ)	600, 700, 850, 900	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	3300, 3500, 3600, 3700, 4500	5200, 5500, 5800
BANDES 5G NR	n5, n8, 12, n20, n28, n71, n81, n82, n83,	n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86	n77, n78, n79	
BANDES 4G-LTE	B5, B6, B8, B12, B13, B14, B17, B18, B19, B20, B26, B27, B28, B29, B44, B67, B68, B71, B85	B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76	B22, B42, B43, B48, B49, B52	B46, B47, B252, B255
BANDES 3G	B5, B6, B8, B12, B13, B14, B19, B20, B26	B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40	B22	



BANDES 2G	710, 750, 810T, 850, 900P, 900E, 900R	1800DCS, 1900PCS		
BANDES CDMA	BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19	BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21		
PERTE DE RETOUR (DB)	~-6,7	~-10,3	~-10,2	~-5.7
VSWR	~3.1:1	~2.0:1	~2.0:1	~3,5:1
EFFICACITÉ (%)	~55,2	~61,4	~60,4	~40,0
GAIN DE CRÊTE (DBI)	~0,5	~2,7	~3.1	~2.2
GAIN MOYEN (DB)	~-2,8	~-2,2	~-2.4	~-4,2
IMPÉDANCE (OHMS)	50			
POLARISATION	Linéaire			
RAYONNEMENT	Omnidirectionnel			
PUISSANCE D'ENTRÉE MAX.(W)	25			

Conditions de mesure de l'antenne :

- Montée sur plaque métallique de 140 × 40.4 cm
- 100 cm de câble LL100
- Mesurée dans une chambre anéchoïque certifiée CTIA 3D



SPÉCIFICATIONS

TYPE DE MONTAGE	Montage en surface
DIMENSIONS (MM)	40 × 8 × 3
MATÉRIEL	Fibre de verre
T° DE FONCTIONNEMENT (°C)	-40 à +105
T° DE STOCKAGE (°C)	-40 à +85
HUMIDITÉ RELATIVE DE STOCKAGE (%)	Jusqu'à 93 à 30 C
CERTIFICATION(S)	RoHS
CONTRAINTE DE CISAILLEMENT	30 kg selon IEC62137-1-2:2007

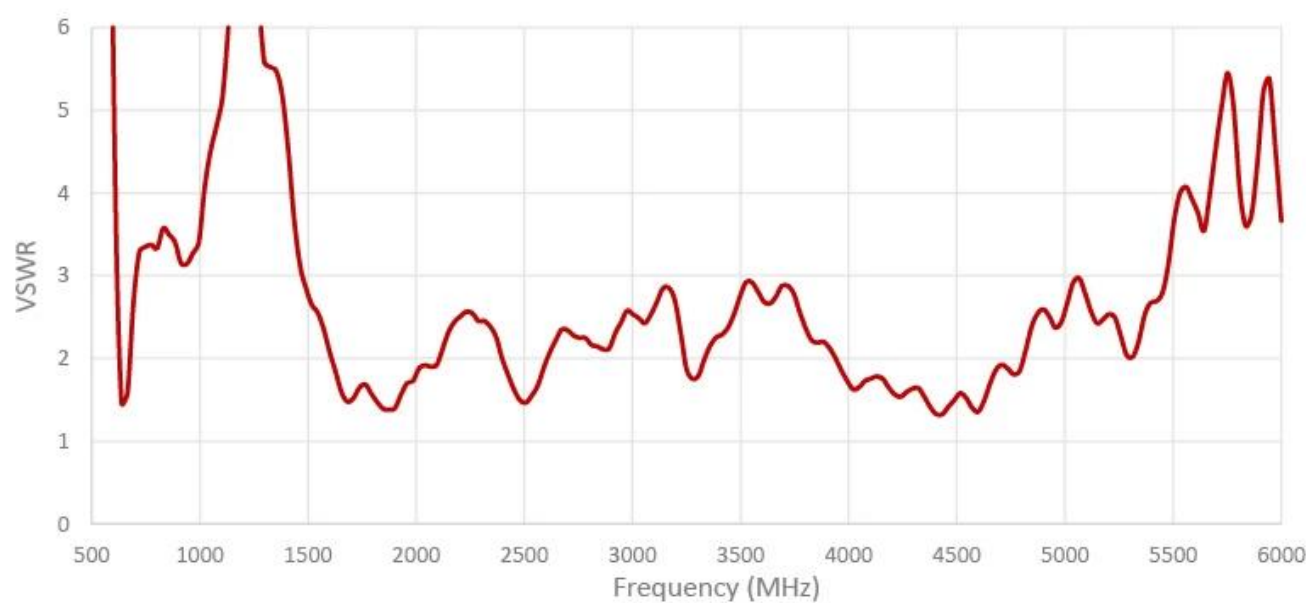
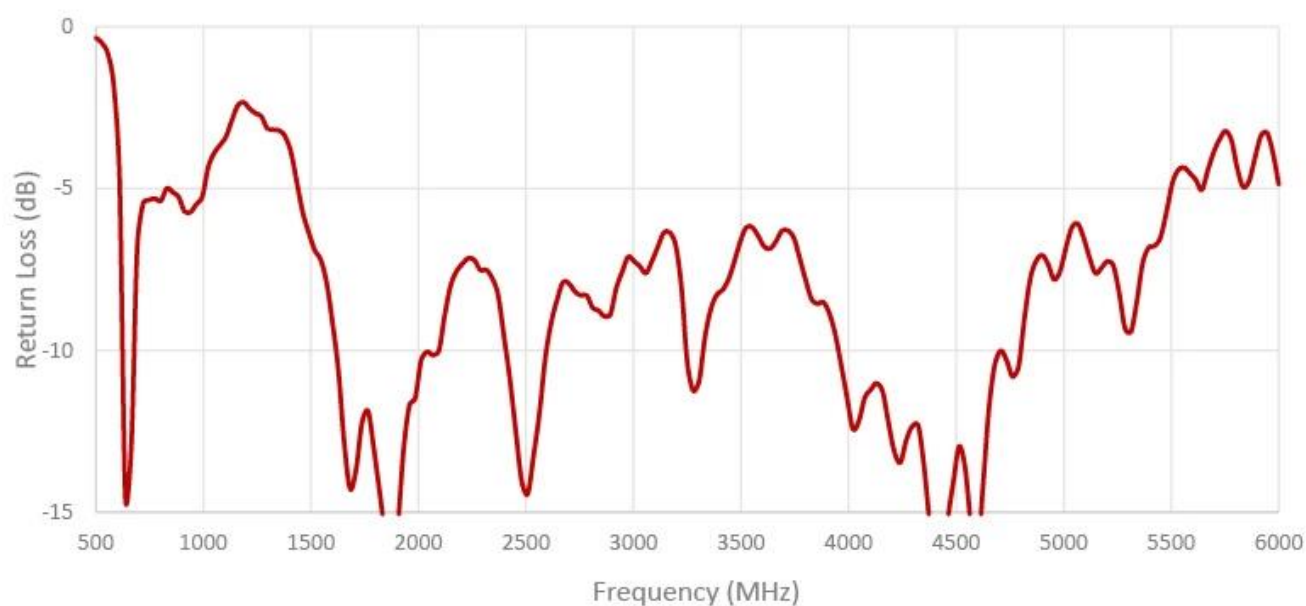
ENVIRONNEMENT

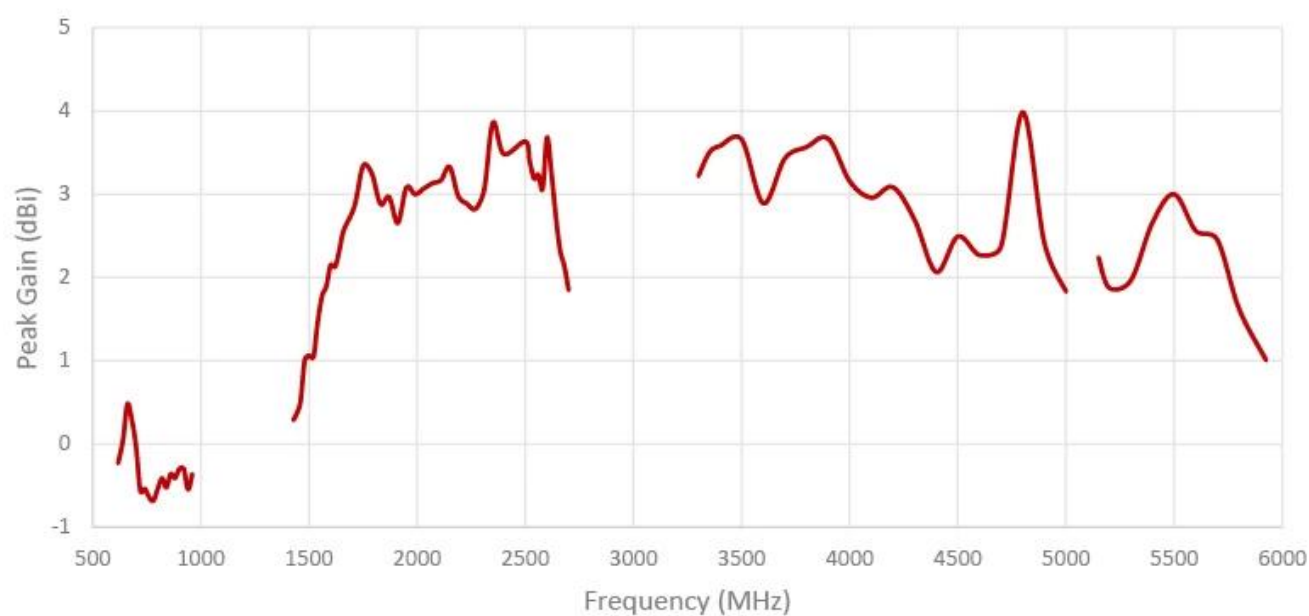
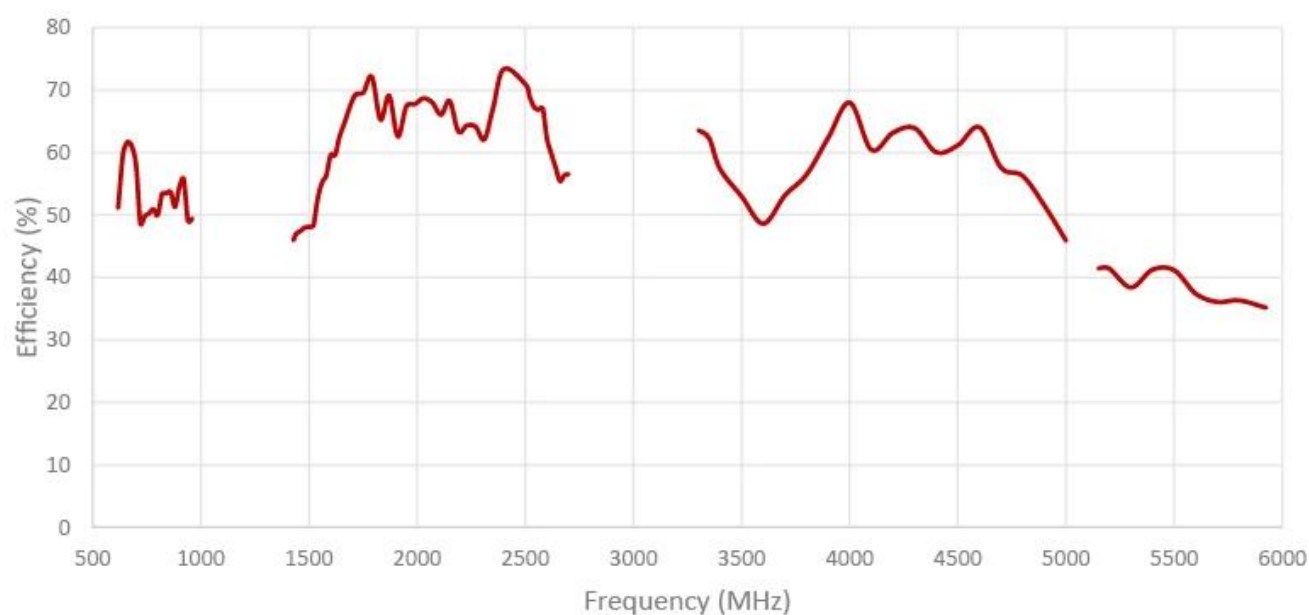
Cette gamme d'antenne est fabriquée sans matières dangereuses tout en maintenant une conformité totale avec REACH et RoHS.

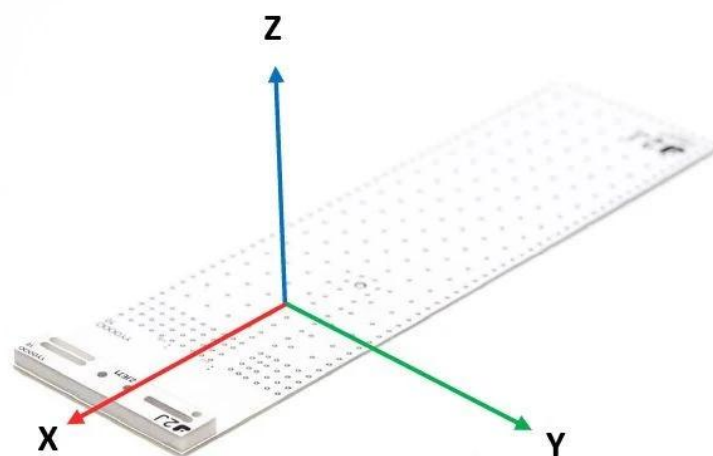
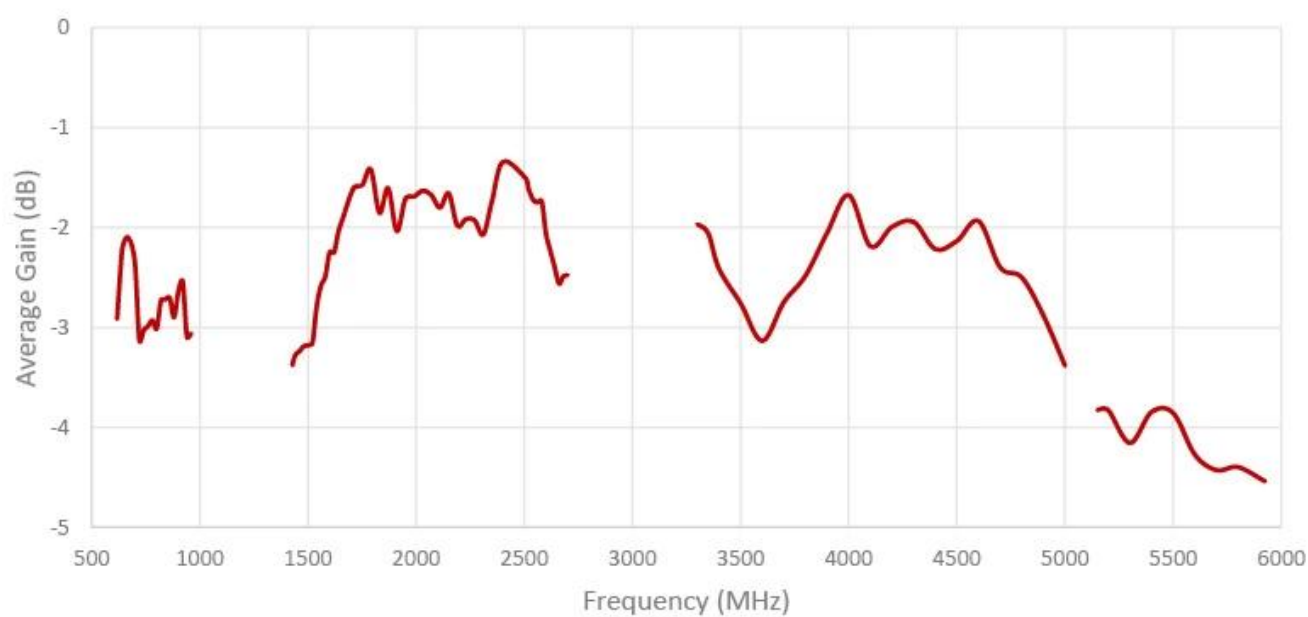




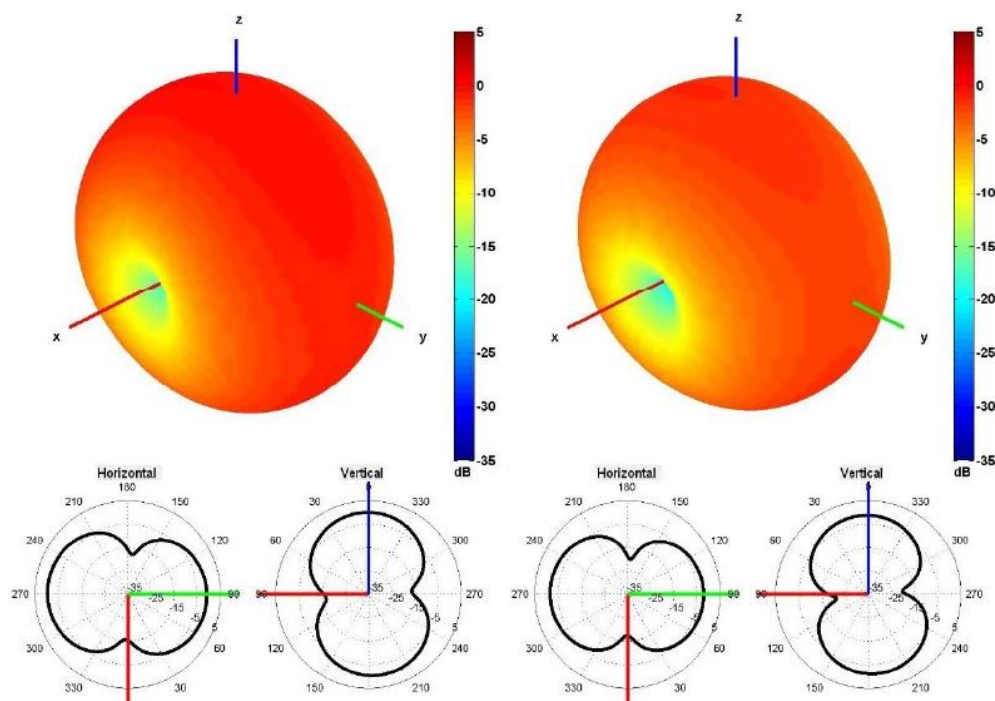
MESURES



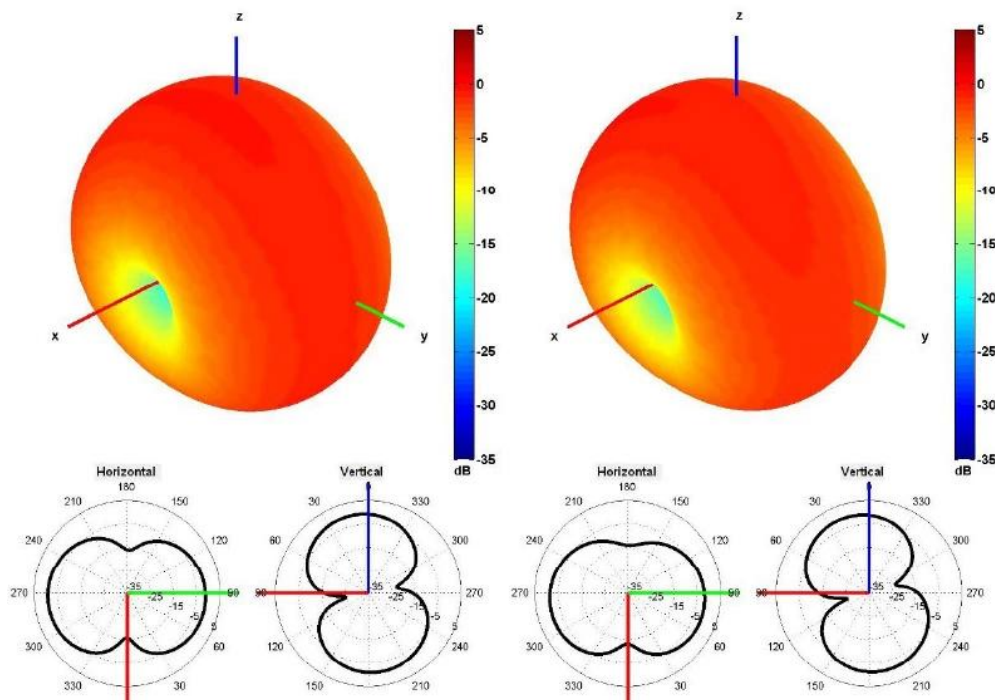




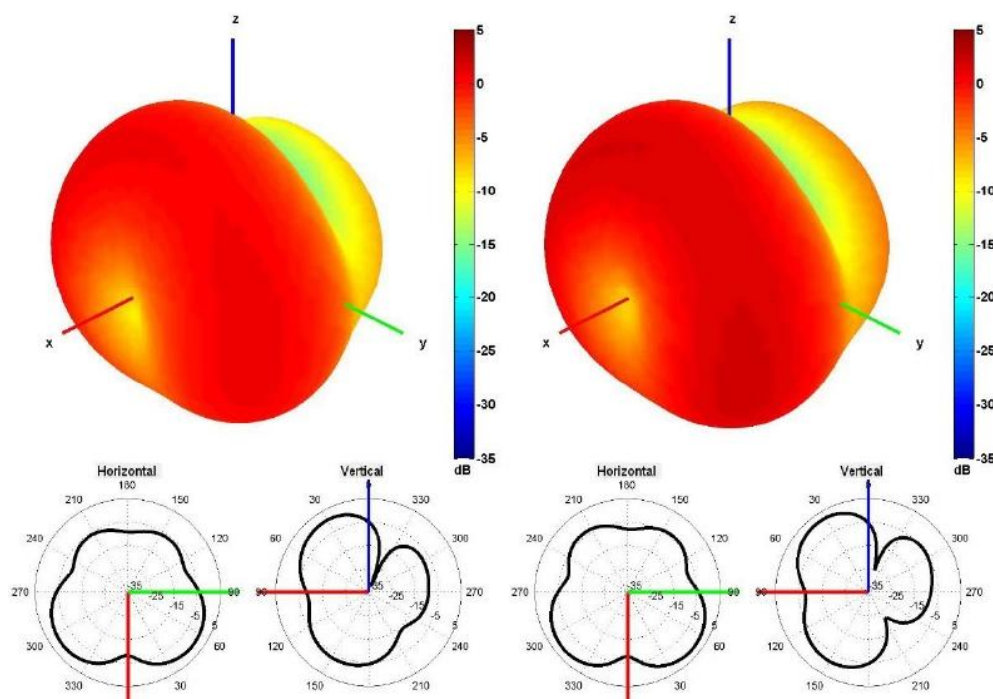
Radiation pattern reference



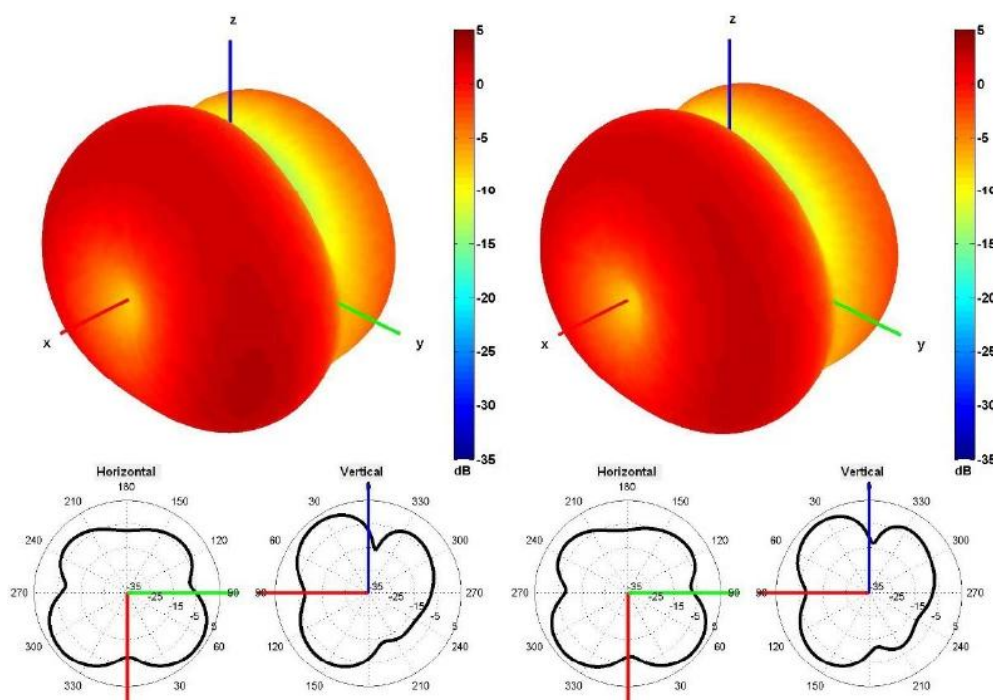
650 and 750 MHz Radiation pattern



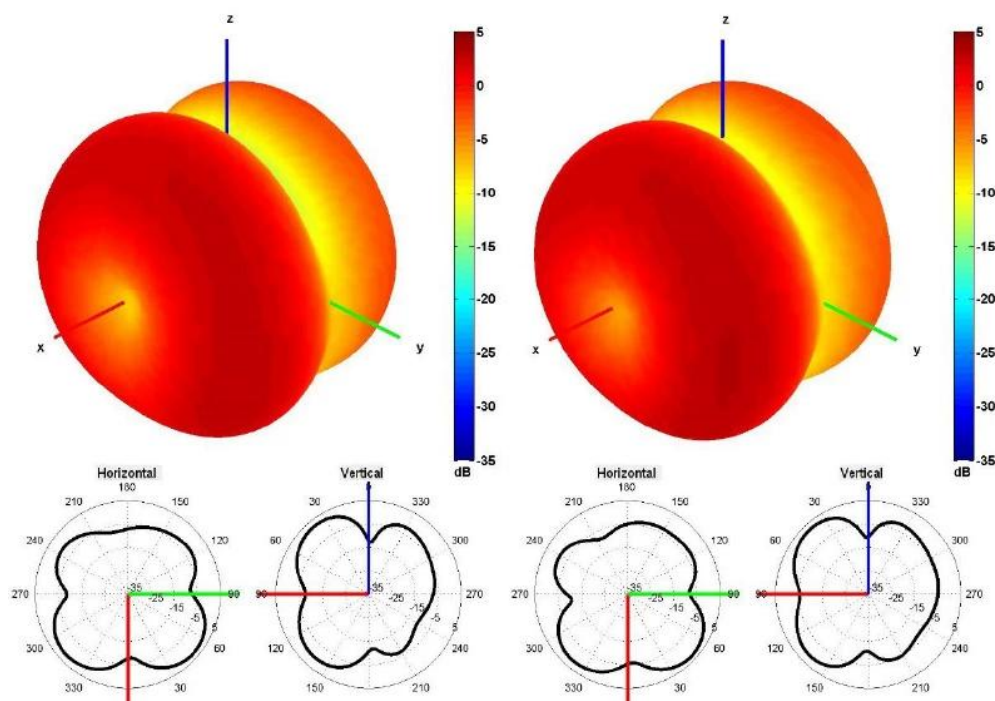
850 and 940 MHz Radiation pattern



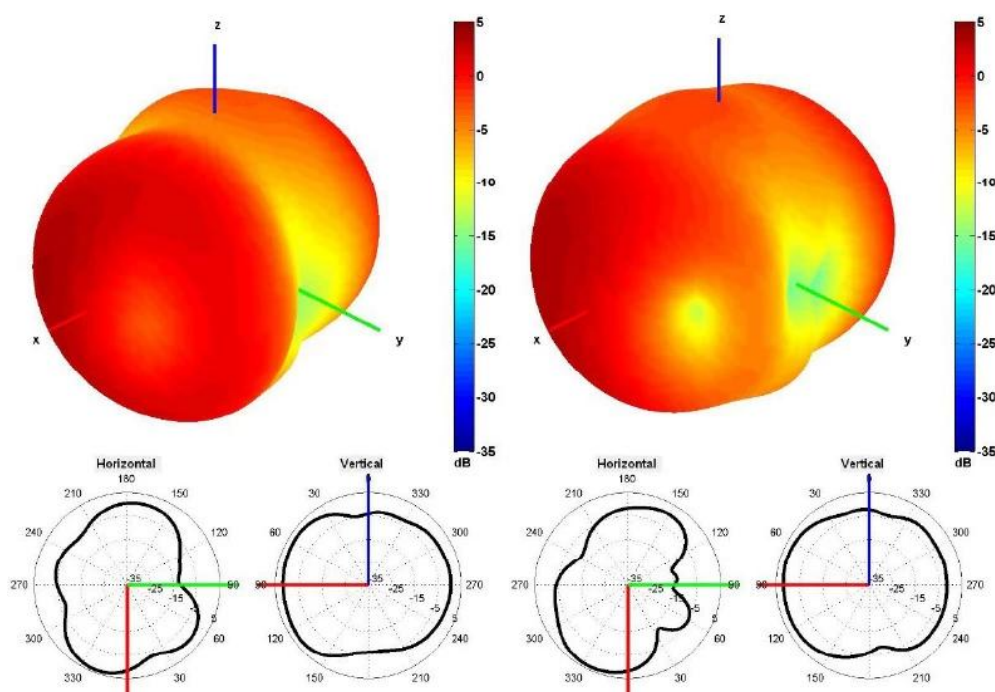
1500 and 1600 MHz Radiation pattern



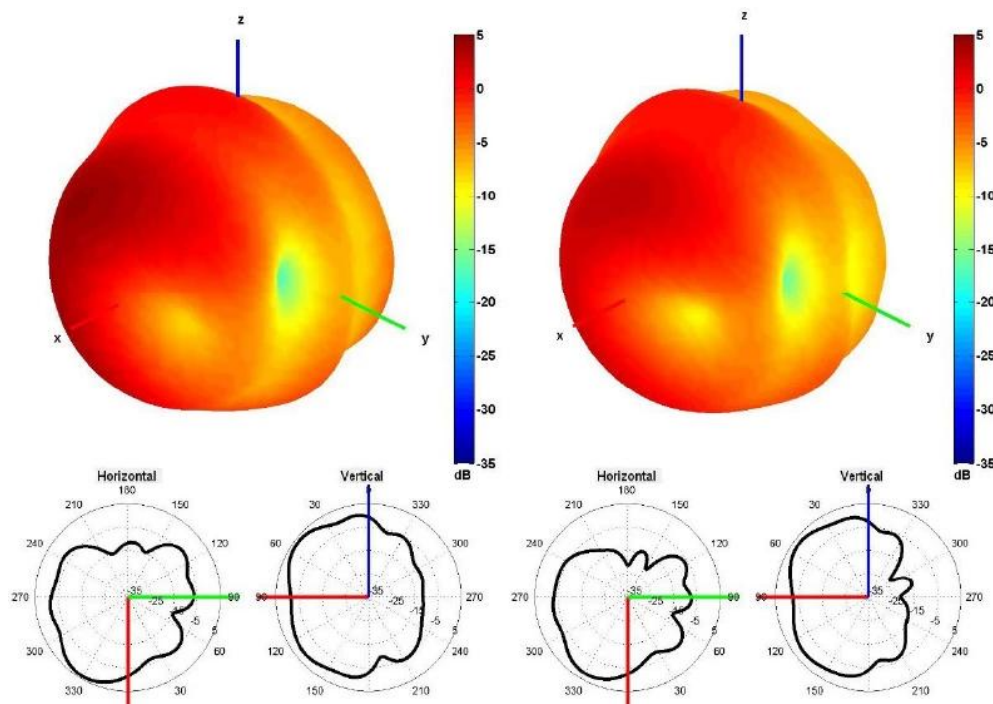
1750 and 1850 MHz Radiation pattern



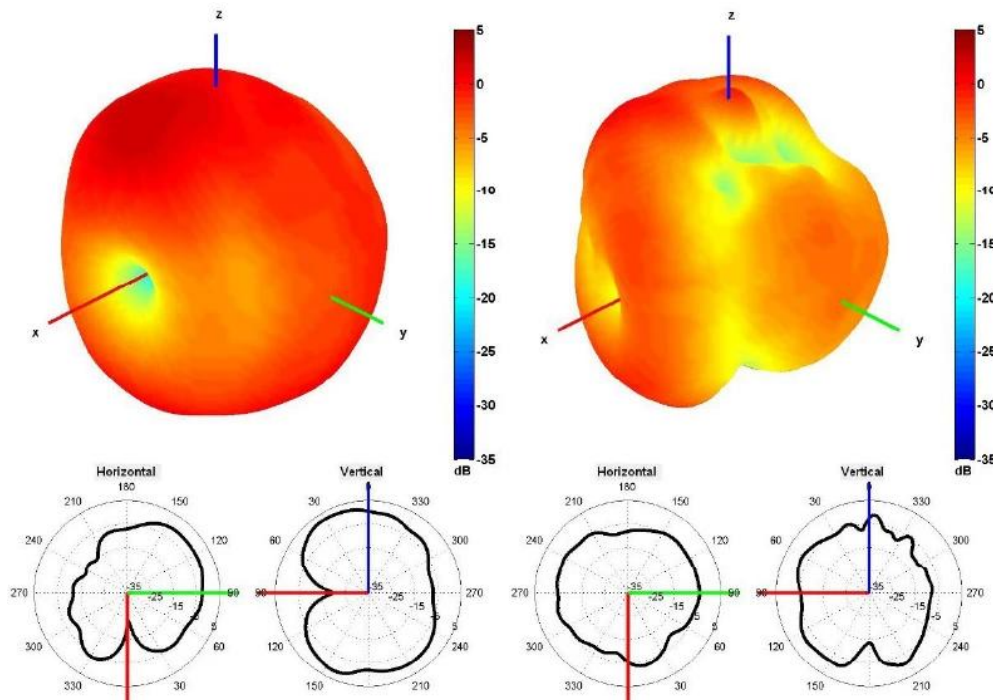
1950 and 2100 MHz Radiation pattern



2350 and 2600 MHz Radiation pattern



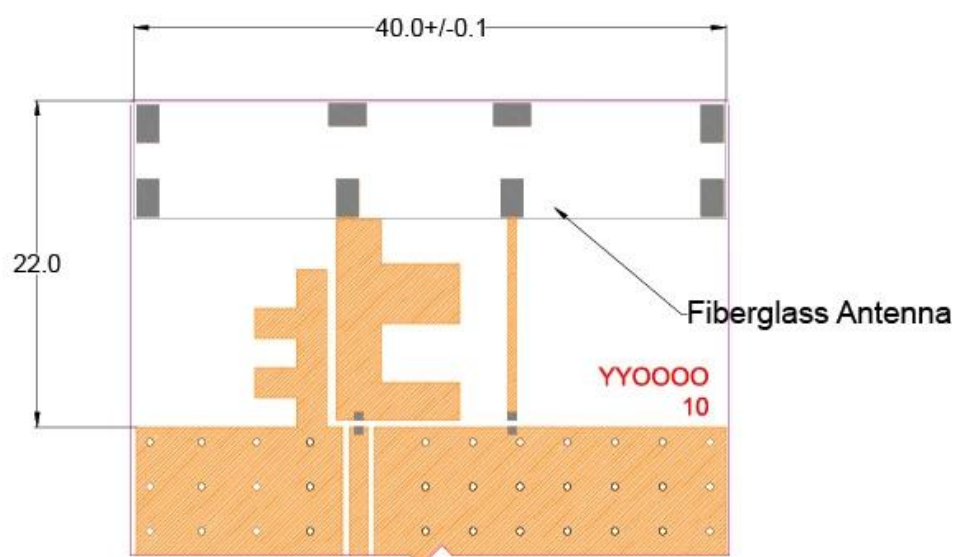
3350 and 3600 MHz Radiation pattern



4500 and 5500 MHz Radiation pattern

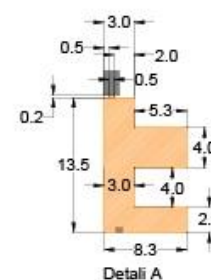
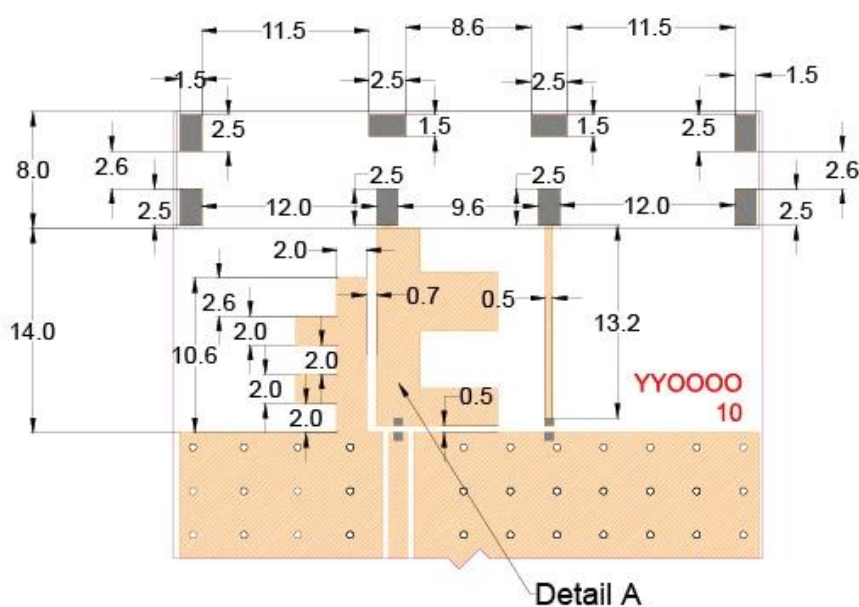


SCHÉMAS



Minimum area required for antenna integration (40mm × 22mm)

- Solder Region
- Copper Region
- Copper-Free Region

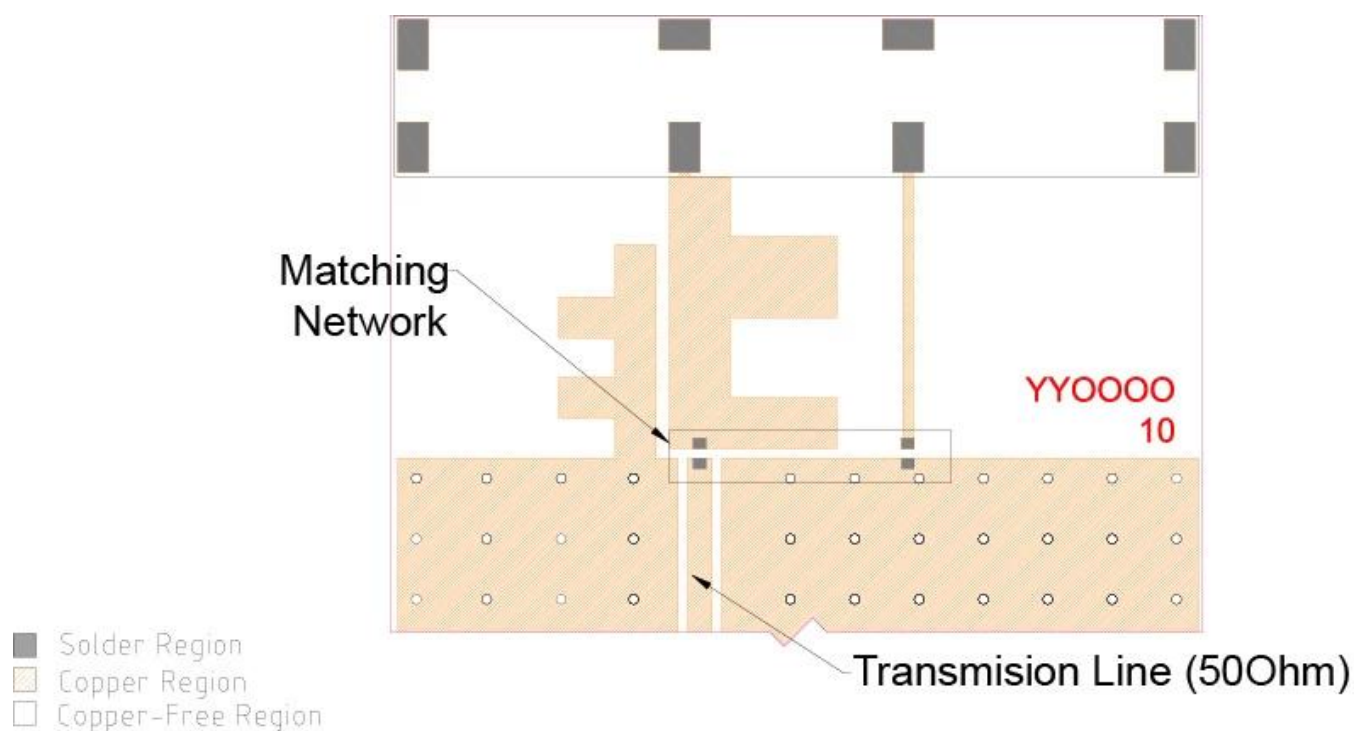


Tolerance of Linear Dimensions
(unless otherwise indicated):

Dimension (mm)	Tolerance
0.5-6	+/- 0.05
6-30	+/- 0.07
30-50	+/- 0.1

- Solder Region
- Copper Region
- Copper-Free Region

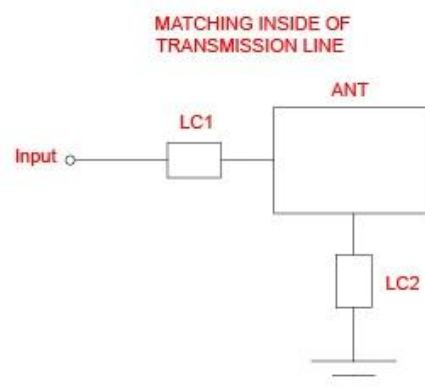
Layout dimensions for antenna integration (mm)

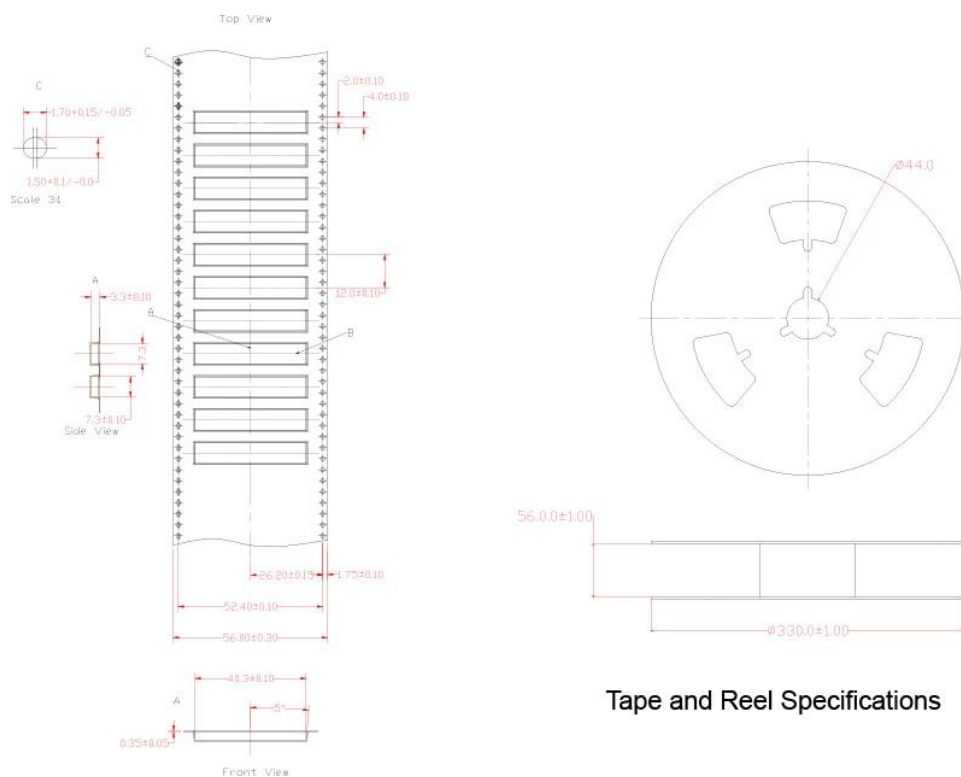
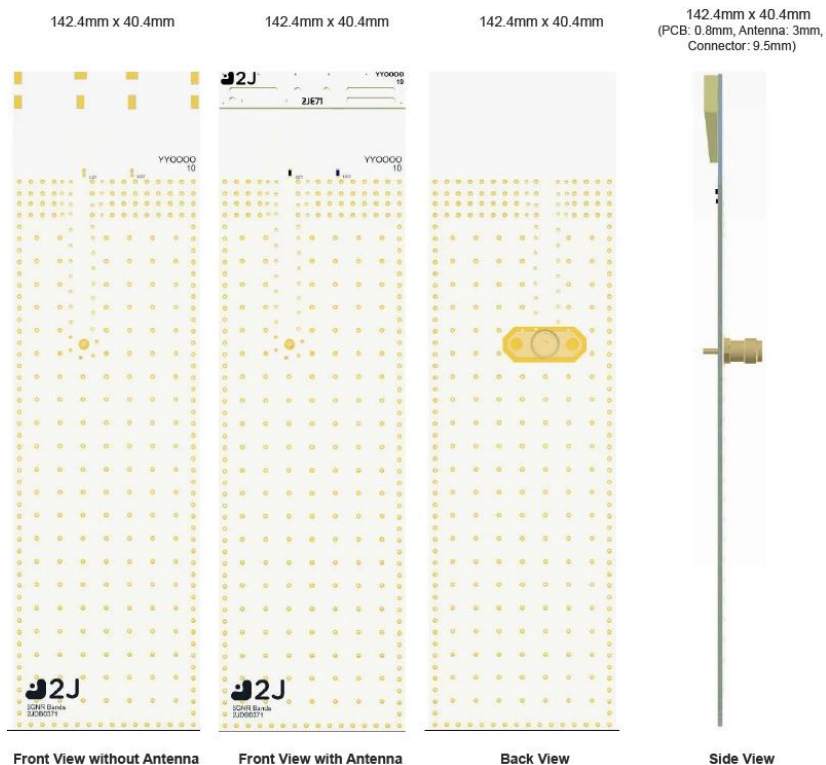


Matching network drawing



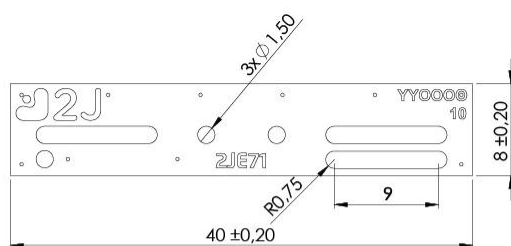
3D View of matching components and recommended values
(LC1=0 Ohm, LC2=8.2 nH)







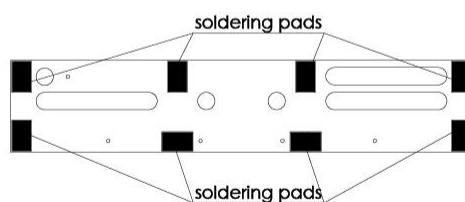
Top View



Front View



Bottom View



Back View

