

DATE: 24. August. 2007

PRODUCT SPECIFICATION

PRODUCT NAME	2.4GHz SLEEVE ANTENNA
PRODUCT NO.	1029-C17586
DRAWING NO.	ASSL-STJ-00300

sign

WRITTEN BY	CHECKED BY	APPROVE D BY
N,SHIZUKA	A,SATO	T,SHIZUKA

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ITEM		CONDITIONS	UNIT	REQUIREMENT
1	【GENERAL MATTER】			
1-1	APPLICATION	Antenna for Bluetooth Network System		
1-2	OPERATING TEMPERATURE	-	℃	－30～＋60
1-3	STORAGE TEMPERATURE	-	℃	－35～＋75
1-4	OPERATING HUMIDITY	-	%RH	0～95
1-5	STORAGE HUMIDITY	-		Non-Dew condensation
2	【APPEARANCE, STRUCTURE, DIMENSION】			
2-1	STRUCTURE, DIMENSION	Depends on specification drawing		cf. Drawing
2-2	APPEARANCE			
2-3	ANTENNA FORM	-		1/2λ Sleeve dipole Antenna
2-4	CONNECTOR	-		U.FL-LP-066
2-5	WEIGHT	-	g	≦ 6
3	【ELECTRIC CHARACTERISTICS】			
3-1	FREQUENCY RANGE	-	MHz	2450±50
3-2	IMPEDANCE	-	Ω	50 (NOMINAL)
3-3	INPUT POWER	-	W	≦ 1.5
3-4	VSWR	Measuring only antenna unit in free space of electromagnetism propagation.		≦ 2.0
3-5	GAIN		dBi	≦ 2.14
3-6	RADIATION			Non-Directivity in a horizontal plane
4	【MECHANICAL CHARACTERISTICS】			
4-1	FALL STRENGTH	Free-falling only antenna unit on concrete from height of 150 centimeters twice.		Must meet 3
4-2	TENSILE STRENGTH	After adding static load (30 sec.)	kgf	≦ 0.1
4-3	VIBRATILITY RESISTANT	10～55 Hz 1.5mm (10G) 3*2h / 1cyc : 1min.		Must meet 3
5	【WEATHERABILITY】			
5-1	COLD	Expose to -25±3degree centigrade for 96 hours. Upon completion of the exposure period,the test specimens shall be conditioned at ambient room conditions for 1hours, after which the specified measurements shall be performed. (JIS C0020)		Without damage of apearance and structure. Must meet 3.
5-2	HEAT RESISTANCE	Expose to 75±2degree centigrade for 96 hours. Upon completion of the exposure period,the test specimens shall be conditioned at ambient room conditions for 1hours, after which the specified measurements shall be performed. (JIS C0021)		

5-3	HUMIDITY	Expose to 75±2degree centigrade and 90 to 95% relative humidity for 96 hours. Upon completion of the exposure period,the test specimens shall be conditioned at ambient room conditions for 1hours, after which the specifiedmeasurements shall be performed. (JIS C0022)		Without damage of apearance and structure. Must meet 3.
【NOTE】				

放射指向特性 (Directivity Chart) ... E plane

Date : 2007/8/29

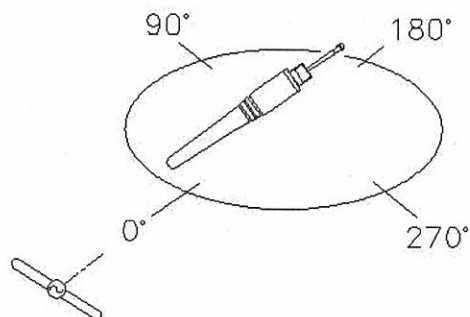
Name : 1029-C17586

Parts No. :

Type : 1/2 λ スリーブ

Frequency : 2450 ± 50 MHz

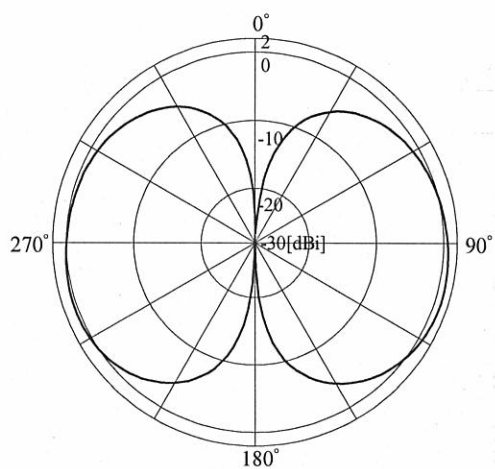
Antenna Position



2.4GHz

(E-Peak) 1.0 dBi

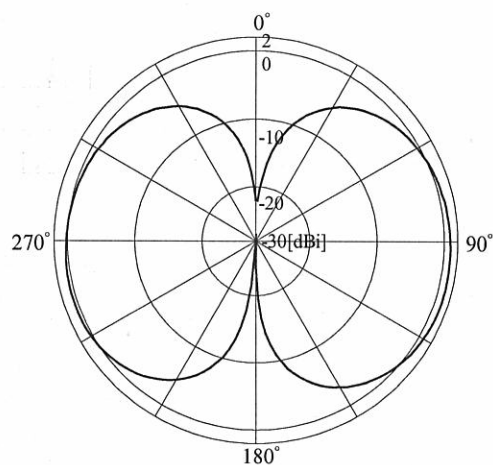
(E-Ave.) -2.0 dBi



2.45GHz

(E-Peak) 1.1 dBi

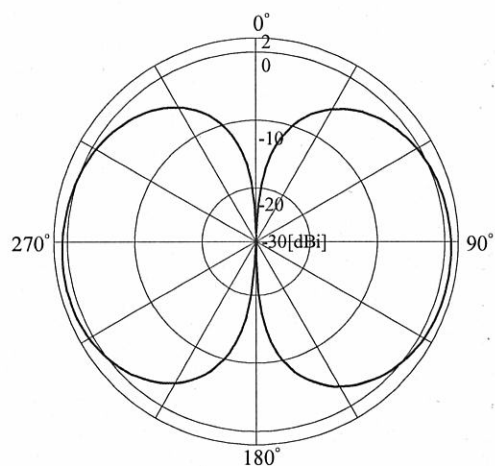
(E-Ave.) -1.8 dBi



2.5GHz

(E-Peak) 1.3 dBi

(E-Ave.) -1.7 dBi



Hz

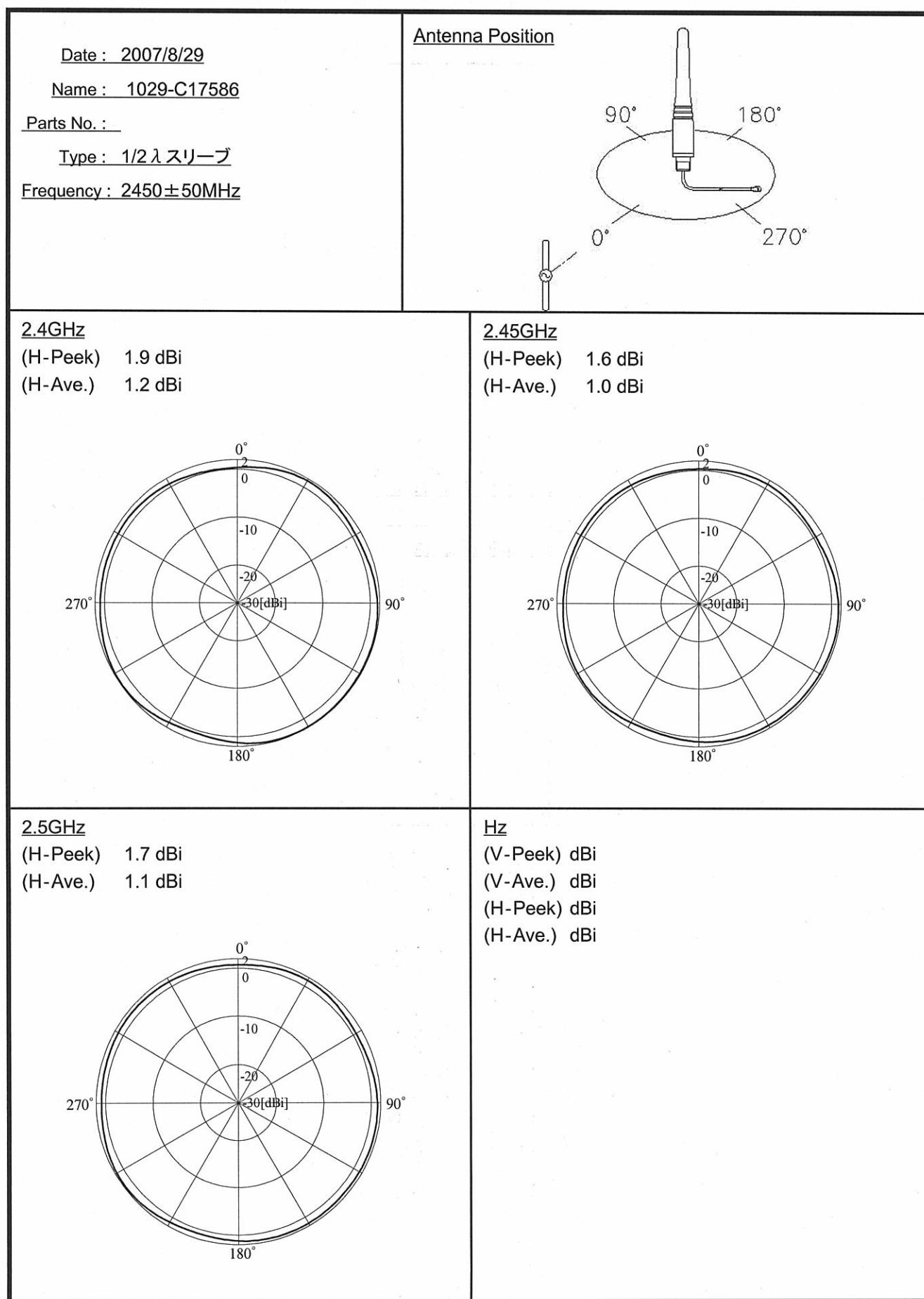
(V-Peak) dBi

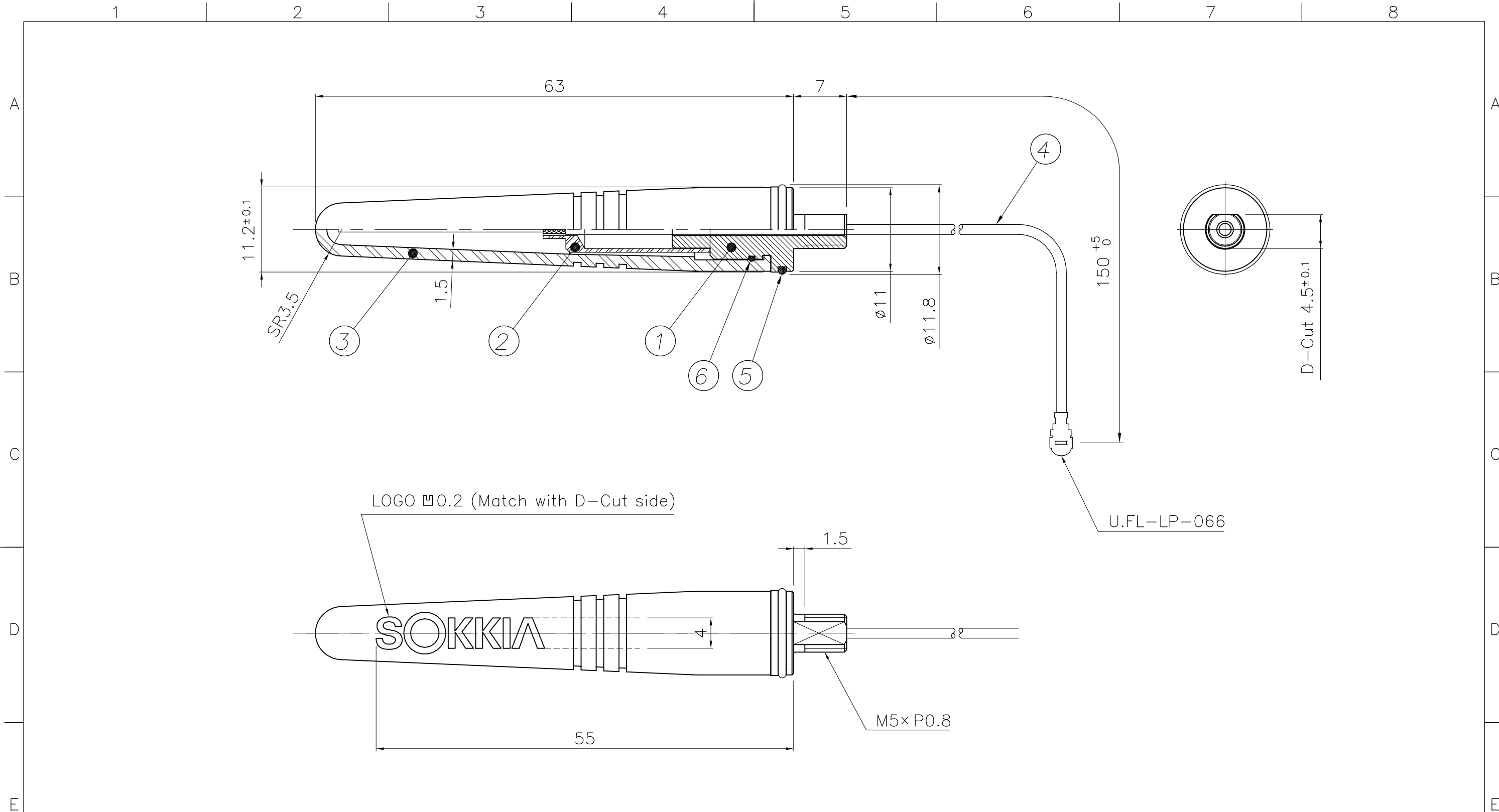
(V-Ave.) dBi

(H-Peak) dBi

(H-Ave.) dBi

放射指向特性 (Directivity Chart) ... H plane





NOTE

1. Connector...The product made from "U.FL-LP-066" Hirose Electric Co.,Ltd.
Cable...It is a thing of specification about 1.3mm of outer diameters.

⑥	O RINGU2	1	NBR	OR6.5*0.7
⑤	O RING1	1	NBR	OR9*1.0
④	CABLE	1	—	Refer to notes 1
③	COVER	1	Elastomer	BLACK
②	SLEEVE PIPE	1	C3601BD	—
①	BASE	1	PC(GF15%)	BLACK
○	Description	Quantity	Material,Finish	Q'TY

						
	Date	Signature	Revision note			
Scale	2:1	Date	13-April-2007		Production Number	1029-C17586
Unit	mm	Material				
projection		Surface Treatment			Title	2.4G SLEEVE ANTENNA
General Tolerance		Color			Drawing Number	ASSL-STJ-00300
- 3	±0.2	N,Shizuka		N,Shizuka	A,Sato	T,Shizuka
3 - 18	±0.3					
18 - 80	±0.4					
80 - 250	±0.6					
Dimension	Tolerance	Designed	Drawing	Checked	Approved	HOKO ELECTORIC CO.,Ltd.