

24CY SF-4 Antenna Data Sheet

Electronics Development Dept. No.12
 Connected System Development Div.
 TOYOTA MOTOR CORPORATION

1. Antenna Name
Sharkfin Antenna
2. Manufacturer
MITSUMI ELECTRIC CO., LTD.
3. Model name
DEPB2-10026
4. Antenna Specification
 - Antenna maximum gain of each Band (Transmission band)
 - Radiation pattern including maximum gain direction

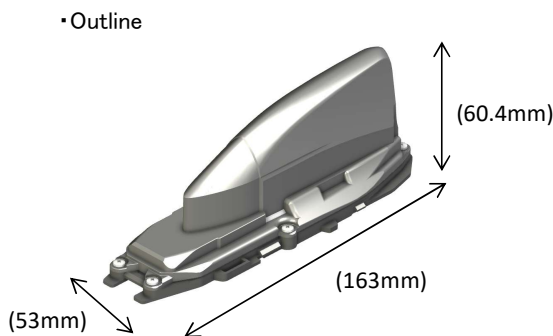
Table1. Antenna Specification

Band	B12	B12	B28
Freq. [MHz]	699	716	740
MAX [dBi]	-10.7	-8.2	-7.7
Radiation Pattern			
Band	B18	n26	B8
Freq. [MHz]	830	840	900
MAX [dBi]	-5.7	-5.3	-3.5
Radiation Pattern			
Band	n3	n1	n41
Freq. [MHz]	1720	1950	2500
MAX [dBi]	-0.6	-1.0	-3.2
Radiation Pattern			
Band	n77	n79	
Freq. [MHz]	3420	4630	
MAX [dBi]	-3.4	-2.9	
Radiation Pattern			Zenith Hor.

Table2. Antenna Horizontal plane directivity

Band	B12	B12	B28
Freq. [MHz]	699	716	740
Radiation Pattern	<p>Ele.70 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele.60 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele.60 Front</p> <p>Left Right</p> <p>Back</p>
Band	B18	n26	B8
Freq. [MHz]	830	840	900
Radiation Pattern	<p>Ele.60 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele.60 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele.60 Front</p> <p>Left Right</p> <p>Back</p>
Band	n3	n1	n41
Freq. [MHz]	1720	1950	2500
Radiation Pattern	<p>Ele.20 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele.20 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele.90 Front</p> <p>Left Right</p> <p>Back</p>
Band	n77	n79	
Freq. [MHz]	3420	4630	
Radiation Pattern	<p>Ele.60 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele.60 Front</p> <p>Left Right</p> <p>Back</p>	<p>Ele. Front</p> <p>Left Right</p> <p>Back</p>

5. Antenna Outline and Connector information



• Connector
GT36C
Made by HIROSE ELECTRIC CO.,LTD.

6. Antenna type and model code (Refer to Ministry of Internal Affairs and Communications Notification No. 356, Attached Table No. 19)

code classification	Model code
1st sending/receiving code:	M
2nd basic code:	DP
3rd additional code:	D
4th polarization code:	VH
5th SD code:	N
6th Tracking method code:	N

←The antenna itself has not done this, but please check the system side.

←The antenna itself does not do this, but please check the system side.

7.Element length

163 mm

←Element length from feed point

[Connection cable information]

8. Loss of antenna connection cable in each frequency band (minimum value)

type	[dB]		
	B12/B28/B18/n26/B8	n3	n1
2.5D	3.0		5.0
	n41	n77	n79
	6.0	8.0	9.0

@6000mm Coaxial