

DVB Transmitting Antenna

LYNGDAL

Type No. **759 13474**

TECHNICAL DATA

Constructional features48 antenna panels 75010 175
(12 bays with 4 panels each)

Frequency range.....470 ... 862 MHz

Operating channels.....24 – 25 – 36 – 47 – 53 – 64 – 69

Polarizationhorizontal

Nominal impedance50 Ω

Gain (referred to antenna input)15,8.....16,1.....15,6 dB_d

VSWR..... $\leq 1,2$ at DTT channels

Input power (maximum)7x 2,0 kW DTT

Input connector2x 3 1/8"EIA

10.03.2007

KATHREIN
BCA-Ob

DVB Transmitting Antenna

LYNGDAL

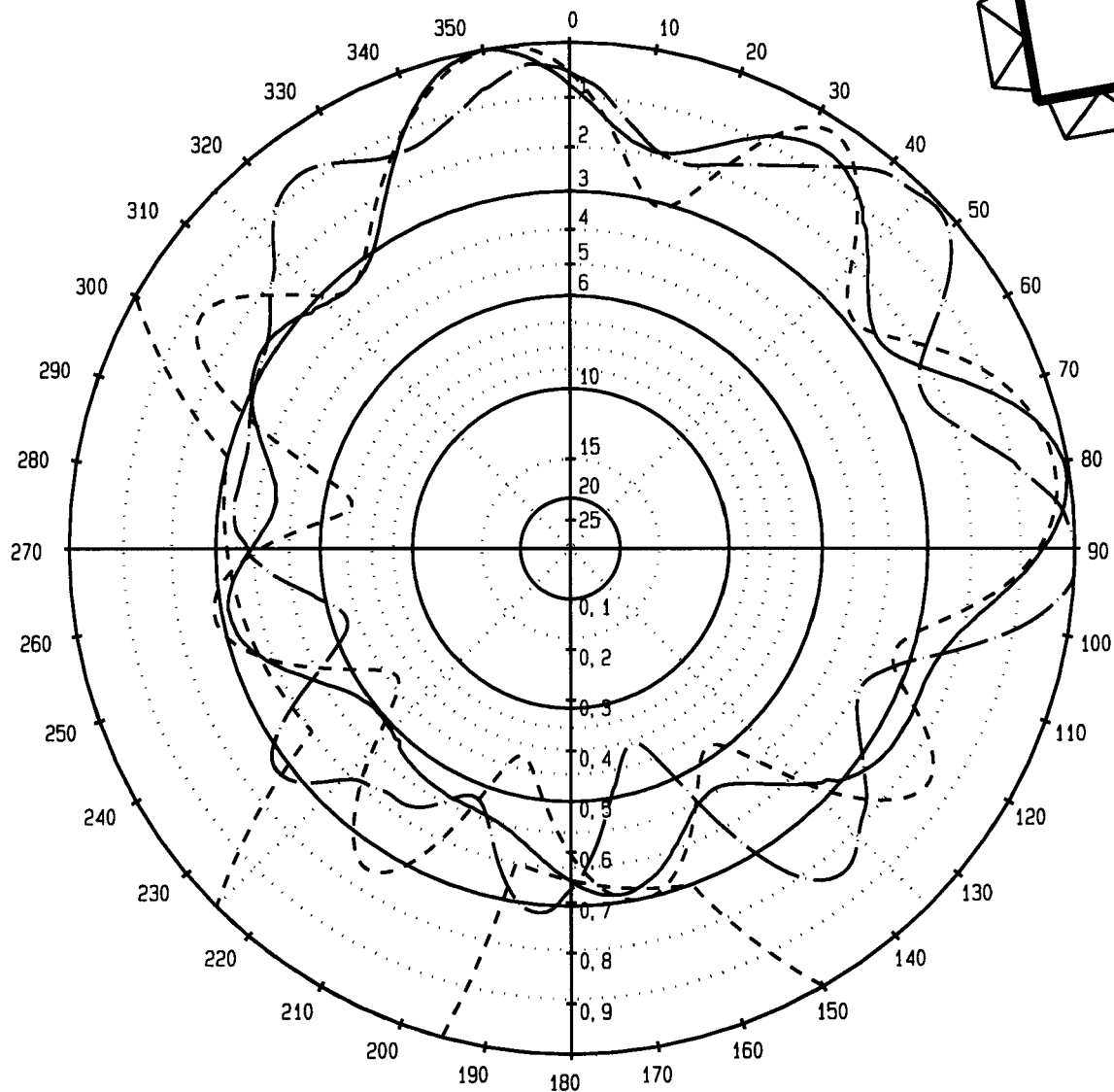
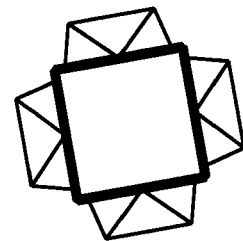
Type No.

759 13474

CABLE LIST

f₀= 498,00 MHz

Pieces	Cable No.	Phases		Length [mm]	Cable type	Connectors
				I ₀ = 2.300	k= 0,88	
12	A		0	2.300	LCF 1/2"Cu2Y	2x 7-16
12	B		0	2.300	(914.590)	(092.1470)
2	C12/D12	-15	60	2.234		
2	C11/D11	-15	49	2.250		
2	C10/D10	-15	38	2.266		
2	C9/D9	-15	27	2.282		
2	C8/D8	-15	16	2.299		
2	C7/D7	-15	5	2.315		
2	C6/D6	-15	-5	2.329		
2	C5/D5	-15	-16	2.346		
2	C4/D4	-15	-27	2.362		
2	C3/D3	-15	-38	2.378		
2	C2/D2	-15	-49	2.394		
2	C1/D1	-15	-60	2.410		
		Total length=		110.930		
				I ₀ = 16.000	k= 0,92	
1	12		264	15.594	HF 1 1/8"Cu2Y	2x 13-30
1	11		253	15.611	(914.533)	(092.1172)
1	10		261	15.598		beide Stecker
1	9		210	15.677		durchbohren
1	8		202	15.689		
1	7		296	15.544		
1	6		140	15.784		
1	5		132	15.797		
1	4		61	15.906		
1	3		72	15.889		
1	2		49	15.925		
1	1		73	15.888		
		Total length=		188.901		
05.03.2008		DVB Transmitting Antenna				Type No.
KATHREIN		LYNGDAL				759 13474
BCA-Ob						



frequency in MHz 498.000 682.000 858.000
down-tilt in ° .0
max / mean in dB 2.62 2.60 2.38

antenna type: 772419B 4 disk panel on mast 600; offset +15 cable design frequency: 498.000 MHz
bay height v-feed power|cab-ph|fix-ph panel|azipos|azidir| radius| tanoff | radoff | tilt| power|cab-ph|fix-ph
1 0 1.0| 0| 0 1| 350.0| 350.0| .0| -15.0| .0| .0| 2.0| 0| 0
2| 80.0| 80.0| .0| -15.0| .0| .0| 2.0| 0| 0
3| 170.0| 170.0| .0| -15.0| .0| .0| 1.0| -15| 0
4| 260.0| 260.0| .0| -15.0| .0| .0| 1.0| -15| 0

Channels 24-25-36-47-53-64-69

KATHREIN Rosenheim Germany	DVB Transmitting Antenna LYNGDAL	Typ Nr. 75913474
		Bl.:

simulation with typical exactness of +/- 8% of max signal

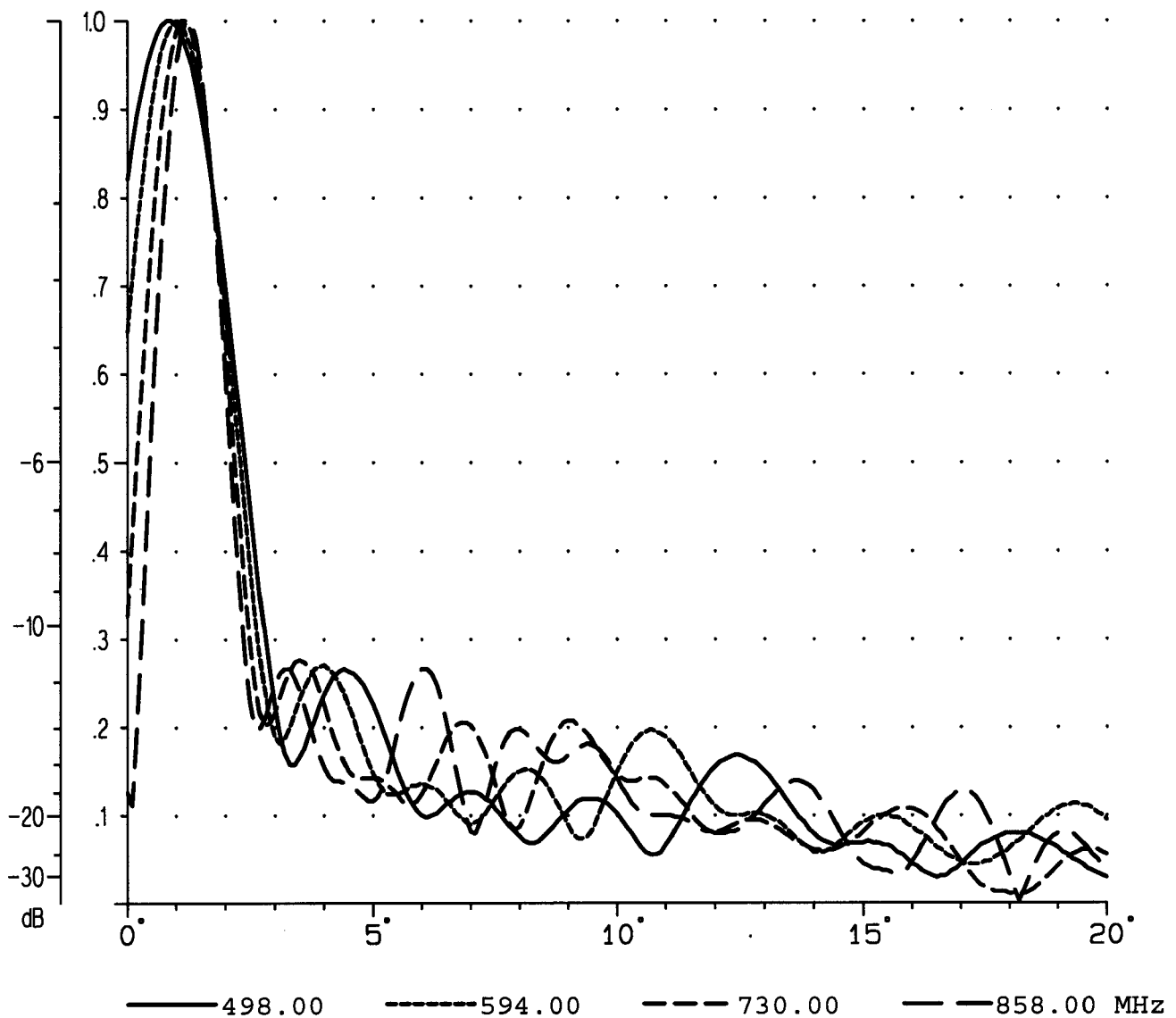
VERTICAL PATTERN

Frequency: 498.00 MHz

Amplitude pattern: 181

No.	Distance(mm)	Rad.offset(mm)	Phase(°)	Power(times)
12	1100	0	264.0 -90	1.00
11	1100	0	253.0 -90	1.00
10	1100	0	261.0 -90	1.00
9	1100	70	210.0 -90	1.00
8	1100	70	202.0 -90	1.00
7	1100	0	296.0 -90	1.00
6	1100	0	140.0	1.00
5	1300	0	132.0	1.00
4	1100	70	61.0	1.00
3	1100	0	72.0	1.00
2	1100	70	49.0	1.00
1	0	0	73.0	1.00

const.
Comp= 93 %



05-03-2008	DVB Transmitting Antenna	Type No.
KATHREIN BCA-Ob	LYNGDAL Directions 350°+80°	75913474-1

VERTICAL PATTERN

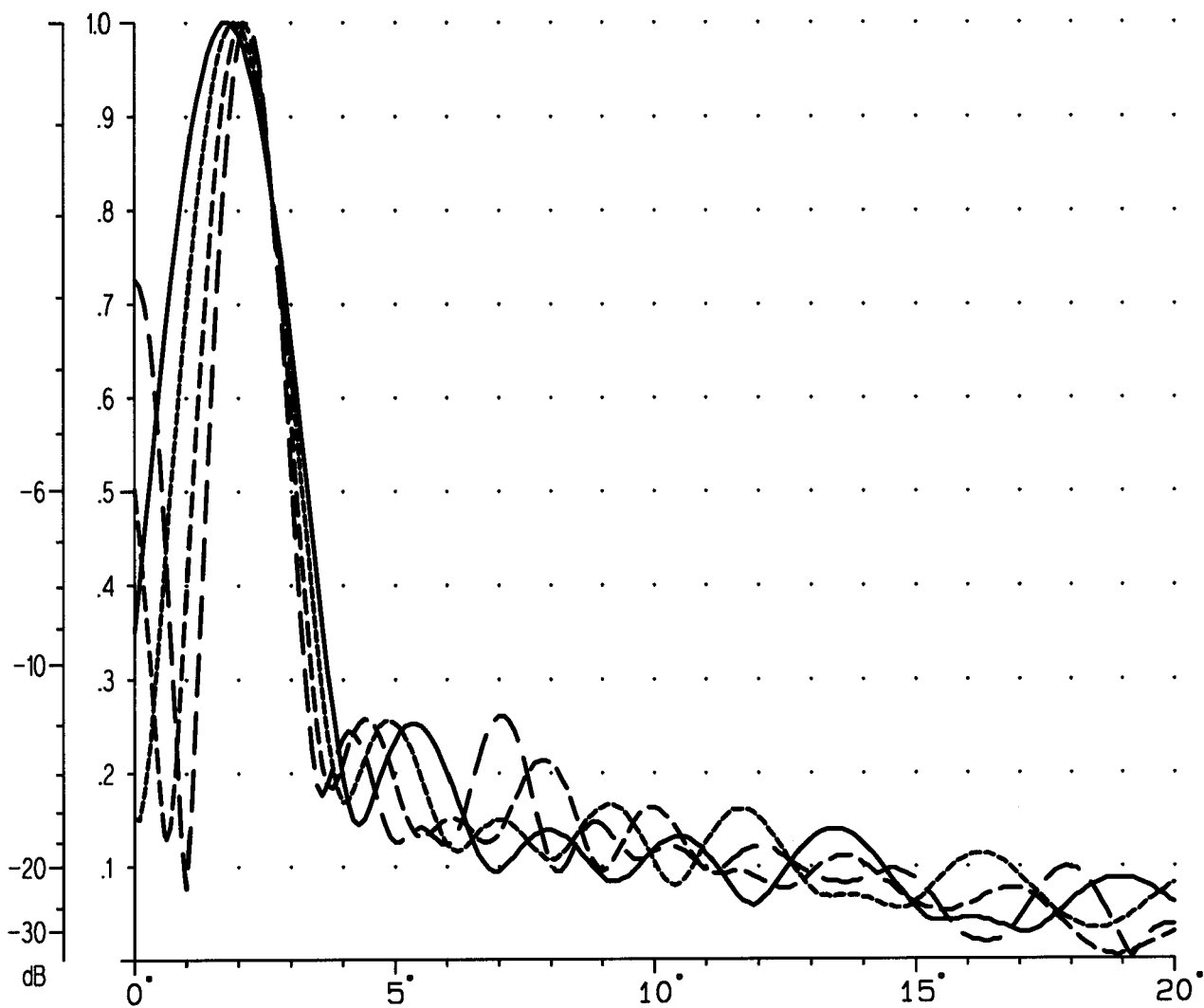
Frequency: 498.00 MHz

Amplitude pattern: 181

No.	Distance(mm)	Rad.offset(mm)	Phase(°)	Power(times)
12	1100	0	324.0 -90	1.00
11	1100	0	302.0 -90	1.00
10	1100	0	299.0 -90	1.00
9	1100	70	237.0 -90	1.00
8	1100	70	218.0 -90	1.00
7	1100	0	301.0 -90	1.00
6	1100	0	135.0	1.00
5	1300	0	116.0	1.00
4	1100	70	23.0	1.00
3	1100	0	45.0	1.00
2	1100	70	0.0	1.00
1	0	0	13.0	1.00

const.

Comp= 68 %

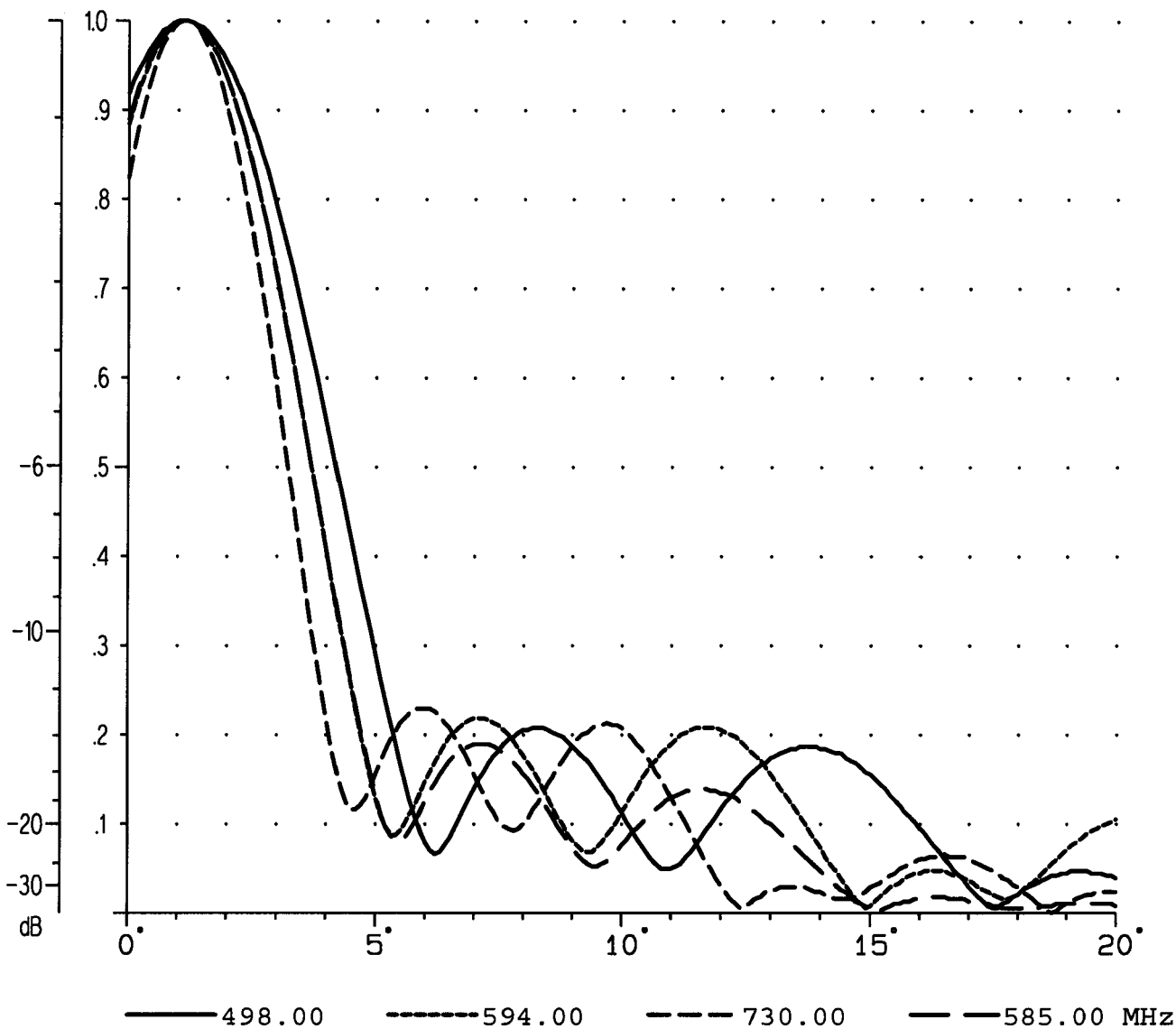


— 498.00 - - - - 594.00 - . - . 730.00 - - - 858.00 MHz

05-03-2008	DVB Transmitting Antenna	Type No.
KATHREIN BCA-Ob	LYNGDAL Directions 170°+260°	75913474-2

VERTICAL PATTERN

Frequency:		498.00 MHz			
Amplitude pattern:		181			
No.	Distance (mm)	Rad.offset (mm)	Phase (°)		Power (times)
12	1100	0	264.0	-90	0.00
11	1100	0	253.0	-90	0.00
10	1100	0	261.0	-90	0.00
9	1100	70	210.0	-90	0.00
8	1100	70	202.0	-90	0.00
7	1100	0	296.0	-90	0.00
6	1100	0	140.0		1.00
5	1300	0	132.0		1.00
4	1100	70	61.0		1.00
3	1100	0	72.0		1.00
2	1100	70	49.0		1.00
1	0	0	73.0		1.00
const.					
Comp= 59 %					



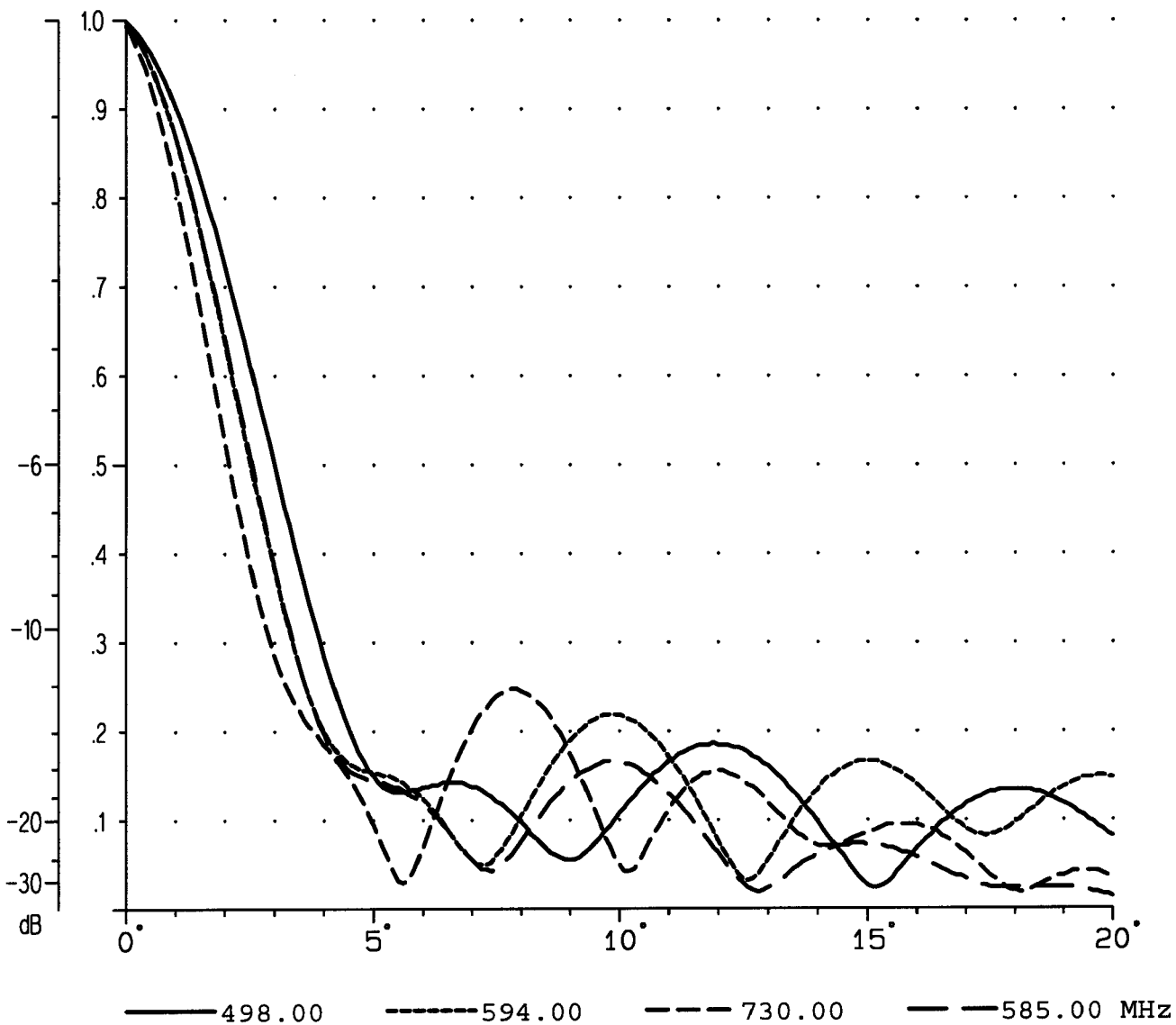
26-04-2008	DVB Transmitting Antenna Lower Half Antenna LYNGDAL Directions 350°+80°	Type No.
KATHREIN BCA-Ob		75913474-1

VERTICAL PATTERN

Frequency: 498.00 MHz
Amplitude pattern: 181

No.	Distance (mm)	Rad.offset (mm)	Phase (°)		Power (times)
12	1100	0	264.0	-90	1.00
11	1100	0	253.0	-90	1.00
10	1100	0	261.0	-90	1.00
9	1100	70	210.0	-90	1.00
8	1100	70	202.0	-90	1.00
7	1100	0	296.0	-90	1.00
6	1100	0	140.0		0.00
5	1300	0	132.0		0.00
4	1100	70	61.0		0.00
3	1100	0	72.0		0.00
2	1100	70	49.0		0.00
1	0	0	73.0		0.00

const.
Comp= 53 %



26-04-2008	DVB Transmitting Antenna Upper Half Antenna LYNGDAL Directions 350°+80°	Type No.
KATHREIN BCA-Ob		75913474-1

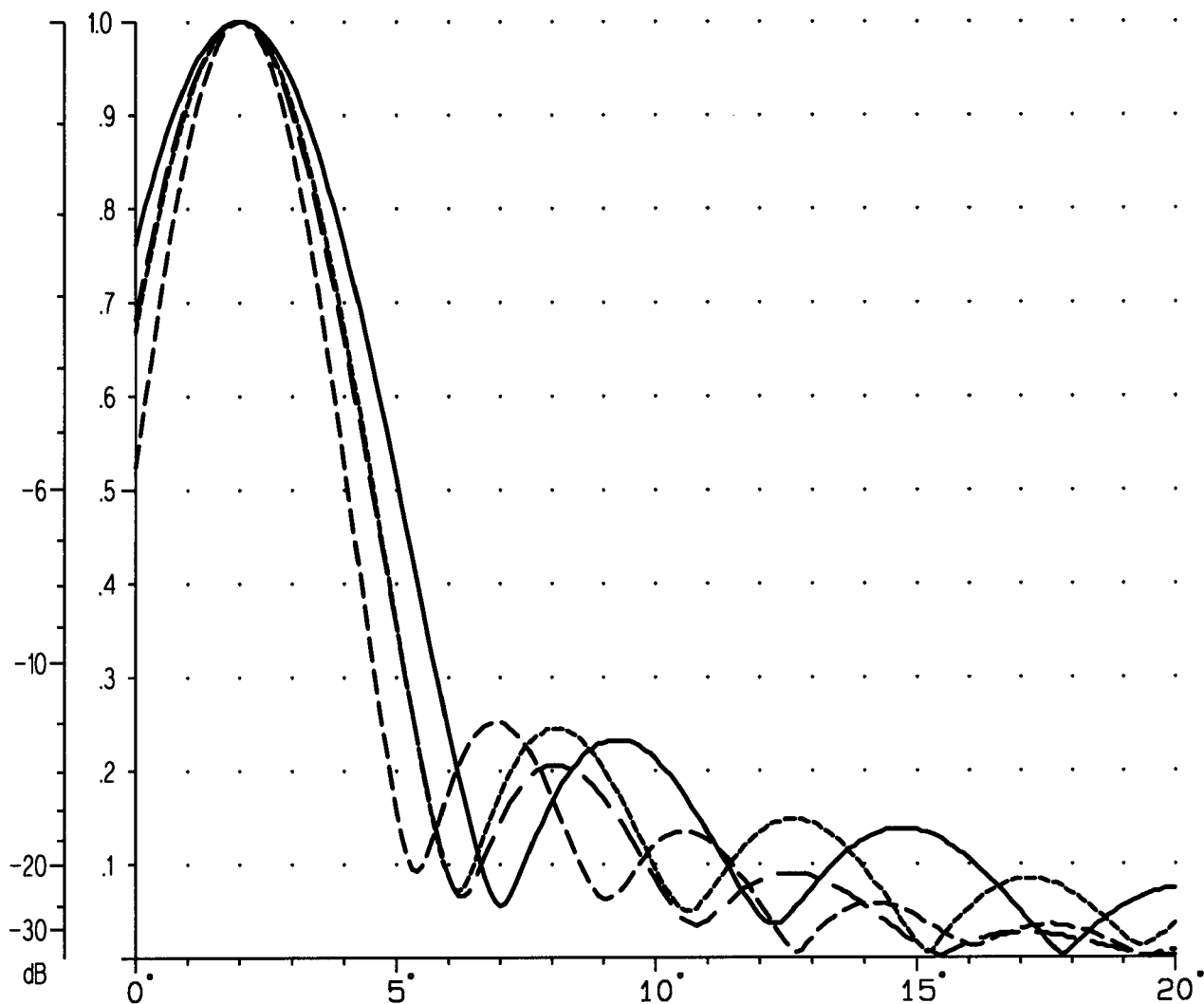
VERTICAL PATTERN

Frequency: 498.00 MHz

Amplitude pattern: 181

No.	Distance (mm)	Rad.offset (mm)	Phase (°)	Power (times)
12	1100	0	324.0 -90	0.00
11	1100	0	302.0 -90	0.00
10	1100	0	299.0 -90	0.00
9	1100	70	237.0 -90	0.00
8	1100	70	218.0 -90	0.00
7	1100	0	301.0 -90	0.00
6	1100	0	135.0	1.00
5	1300	0	116.0	1.00
4	1100	70	23.0	1.00
3	1100	0	45.0	1.00
2	1100	70	0.0	1.00
1	0	0	13.0	1.00

const.
Comp= 66 %



— 498.00 - - - 594.00 - . - 730.00 - - - 585.00 MHz

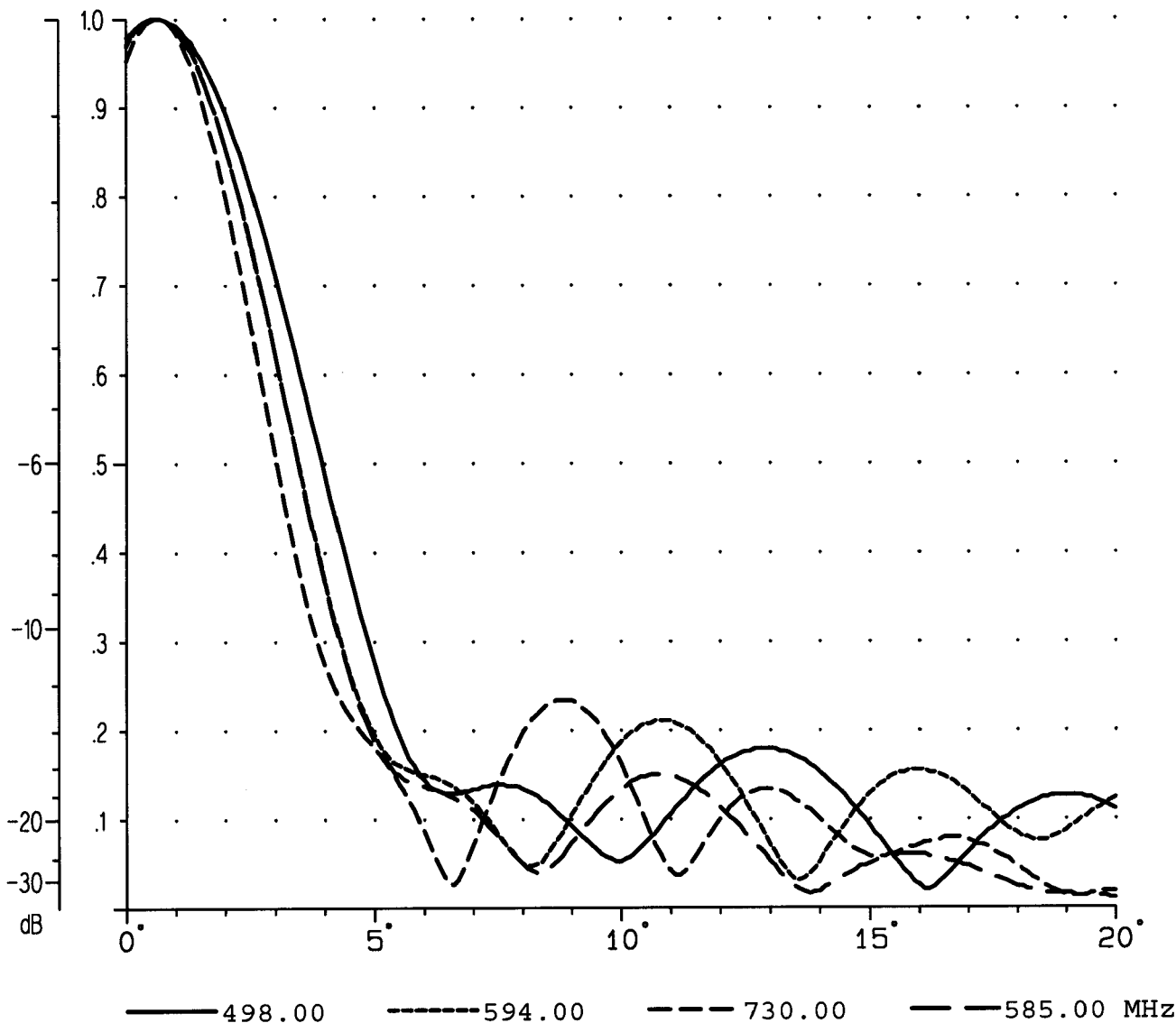
26-04-2008	DVB Transmitting Antenna Lower Half Antenna LYNGDAL Directions 170°+260°	Type No.
KATHREIN BCA-Ob		75913474-2

VERTICAL PATTERN

Frequency:		498.00 MHz				
Amplitude pattern:		181				
No.	Distance (mm)	Rad.offset (mm)	Phase (°)		Power (times)	
12	1100	0	324.0	-90	1.00	
11	1100	0	302.0	-90	1.00	
10	1100	0	299.0	-90	1.00	
9	1100	70	237.0	-90	1.00	
8	1100	70	218.0	-90	1.00	
7	1100	0	301.0	-90	1.00	
6	1100	0	135.0		0.00	
5	1300	0	116.0		0.00	
4	1100	70	23.0		0.00	
3	1100	0	45.0		0.00	
2	1100	70	0.0		0.00	
1	0	0	13.0		0.00	

const.

Comp= 64 %



26-04-2008	DVB Transmitting Antenna Upper Half Antenna LYNGDAL Directions 170°+260°	Type No.
KATHREIN BCA-Ob		75913474-2

Alt.: 0

Var.: 0

Pos.	Al	K	Komponente	Bezeichnung	Menge	ME	D
0010	0	75010175	UHF FELD 4D 716	H GRAU	48,000	ST	
0020	0	75110557	UHF 4XVERT N OA 30 133>716	2:2:1:1	12,000	ST	
0030	0	717048	UHF 6XVERT L MA 76 318>133		2,000	ST	
0040	0	0921195	Messtrennstück 3 1/8	EIA	2,000	ST	
0050	0	0921111	Kupplungselement 3 1/8"	BN: 918710	2,000	ST	
0060	0	072383	Gelenk-Hakenschlüssel		2,000	ST	
0070	0	75913474-80	Verkabelung		1,000	ST	
0080	0	1721395	VERSCHLUSS KPL		2,000	ST	
0090	0	1694052	SCHELLE KPL D=34		24,000	ST	
0100	0	0335158	Vertikalträger L800		4,000	ST	
0110	0	75913474-90	Träger kpl.		1,000	ST	N
0120	0	0355696	Winkel 147x147x950		16,000	ST	
0130	0	1696573	Innenbeleuchtung kpl.		5,000	ST	
0140	0	914717	EMV-Motoranschl-Leit.2YSL(St)CYv-J	4x1,5	25,000	M	
0150	0	914718	EMV-Motoranschl.Leit.2YSL(St)CYv-J	4x2,5	25,000	M	
0160	0	914718	EMV-Motoranschl.Leit.2YSL(St)CYv-J	4x2,5	25,000	M	
0170	0	172664	Schalter HNA TYP 119		1,000	ST	
0180	0	0722055	Befestigungsbügel oben		10,000	ST	
0190	0	0722056	Befestigungsbügel unten		4,000	ST	
0200	0	0722064	Y-Baum		2,000	ST	
0210	0	0722065	Y-Baum		4,000	ST	
0220	0	172817	STEIGSPERRE OBEN		2,000	ST	
0230	0	172818	Steigsperrre unten		4,000	ST	
0240	0	1697738	Schelle kpl. D80mm		2,000	ST	
0250	0	1698145	Schelle kpl. D=80		2,000	ST	
0260	0	0722053	Endsperre		2,000	ST	

VORLÄUFIGE-STÜCKLISTE

Status : KS: T LB: T wirks. ab: 18.03.98

75913474

Ausdruck: 18.03.08

Blatt: 2

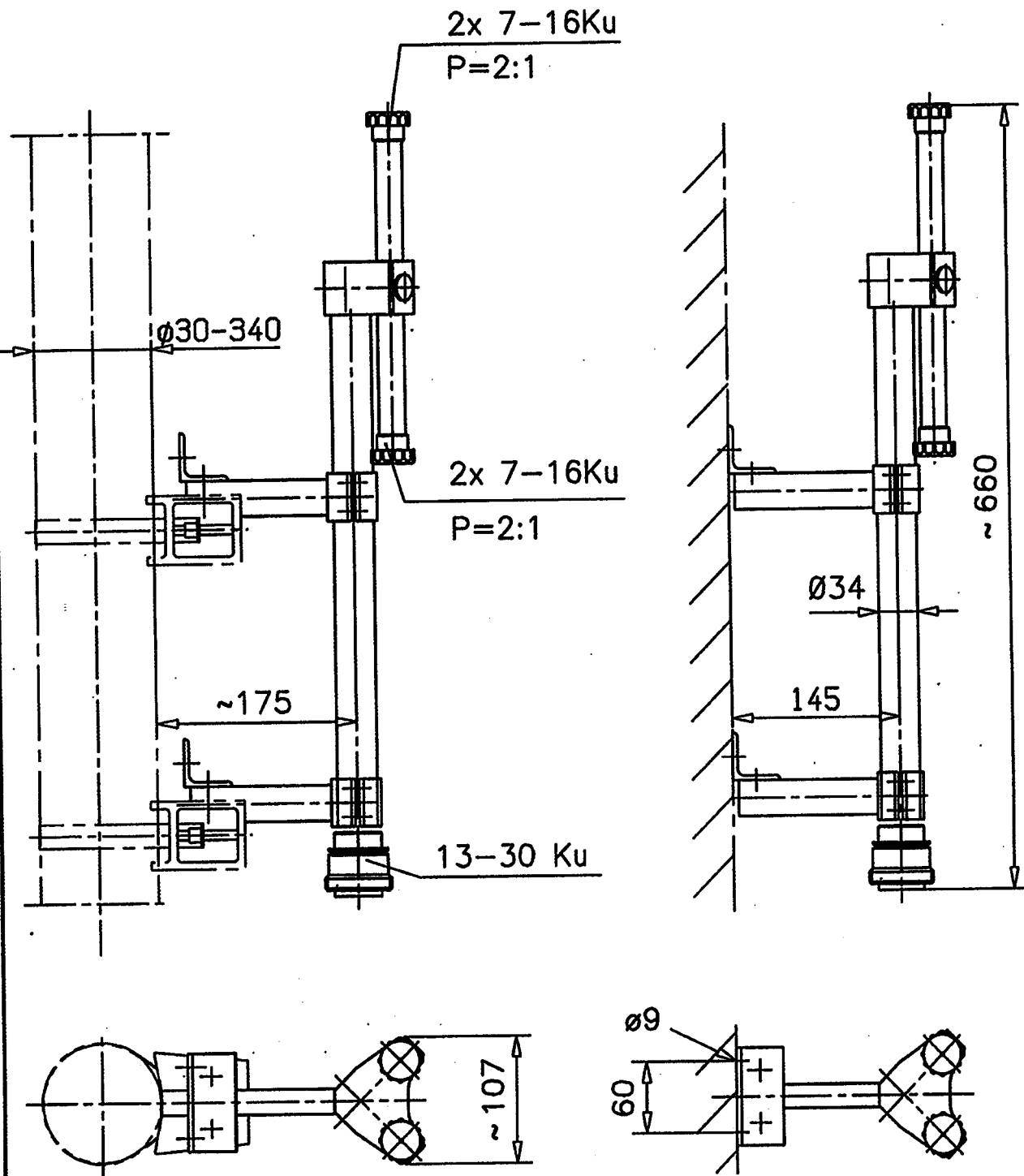
DVB-SA Lyngdal

Kommission:

Alt.: 0 Var.: 0

Pos.	Al	K	Komponente	Bezeichnung	Menge	ME	D
0270	0	0722066		Kupplung für mobile Söll-Leiter	2,000	ST	
0280	0	995132		Sikaflex 221T grau Dichtmasse	50,000	ST	
0290	0	072135		Kabelbinder L=340	400,000	ST	
0300	0	072613		Schlingband TY 29 M-X	100,000	ST	

Für diese Technische Unterlage behalten wir uns alle Rechte vor (DIN 34).

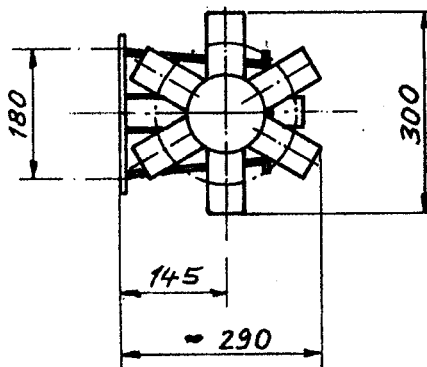


database saved 04.10.2006 14:01:56

				Allgemein- toleranz	Rohgewicht	Oberfl.: RAL 7001 silbergr. seidenm. Feinstr. nach 936.836			
					Tag	Name		Ant. Vert. Power Splitter	Maßstab 1:5
				Bearb.	04.10.06	Heinrich H.			
				Gepr.	04.10.06	Wojnarowski W.			
					5.10.06	[Signature]			
				KATHREIN		75110557			Blatt 1
				83022 Rosenheim		f/MHz:470-860 P=2:2:1:1			
Aus- gabe	Änderung	Tag	Name						

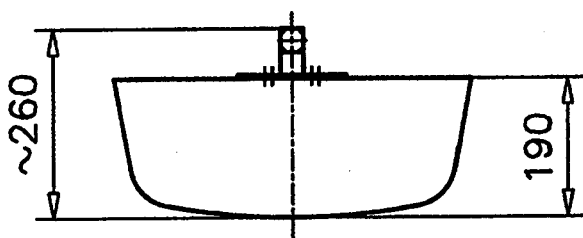
Technical drawing of a vertical assembly, likely a component of a machine or structure. The drawing shows a central vertical shaft or rod with various components attached. Key dimensions and labels include:

- Overall height: 905
- Distance from base to the first major component: ≈ 70
- Distance from the first major component to the second major component: ≈ 550
- Distance from the second major component to the third major component: ≈ 400
- Distance from the third major component to the top: 80
- Labels: $\phi 11$ (indicating a diameter of 11 mm), $6 \times 13/30 Ku$ (indicating a thread or specification), and $3 \frac{1}{8}'' EIA$ (indicating a thread or specification).



				Fremdstoleranz	Rohgew. %	Oberfl.:			
				Bearb.	Tag	Name			
				Gepr.	17.2.84	Aischer	F IV/V-Antennenverteiler	Mastab	1:10
a	Erneuert.	17.2.84	Aischer	KATHREIN-Werke KG			717 048	Blatt	1
Ausgabe	Anderung	Tag	Name	82 Rosenheim 2					

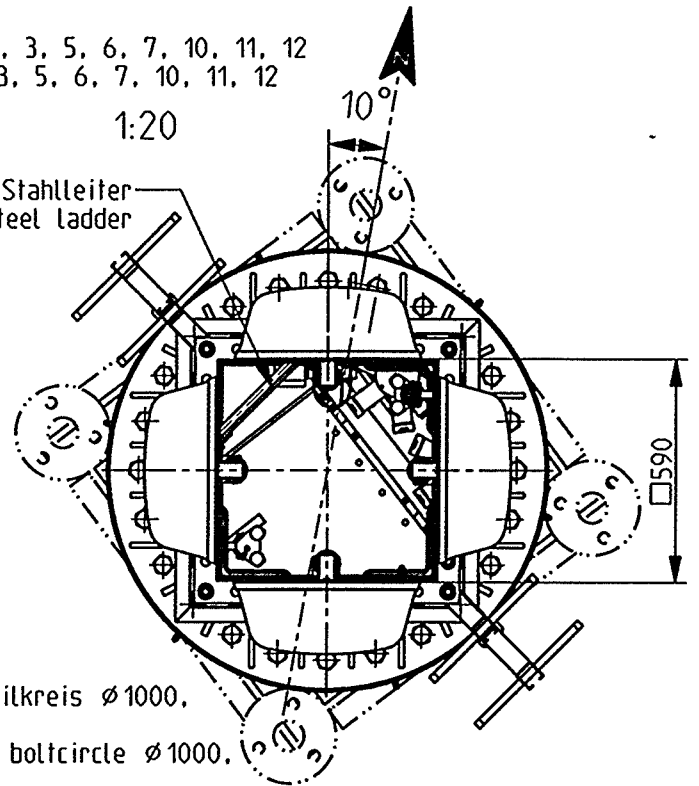
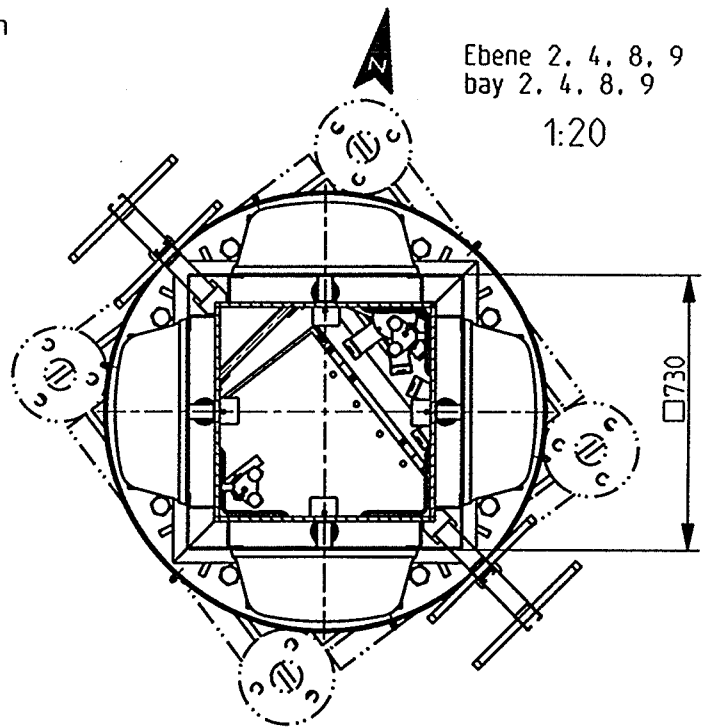
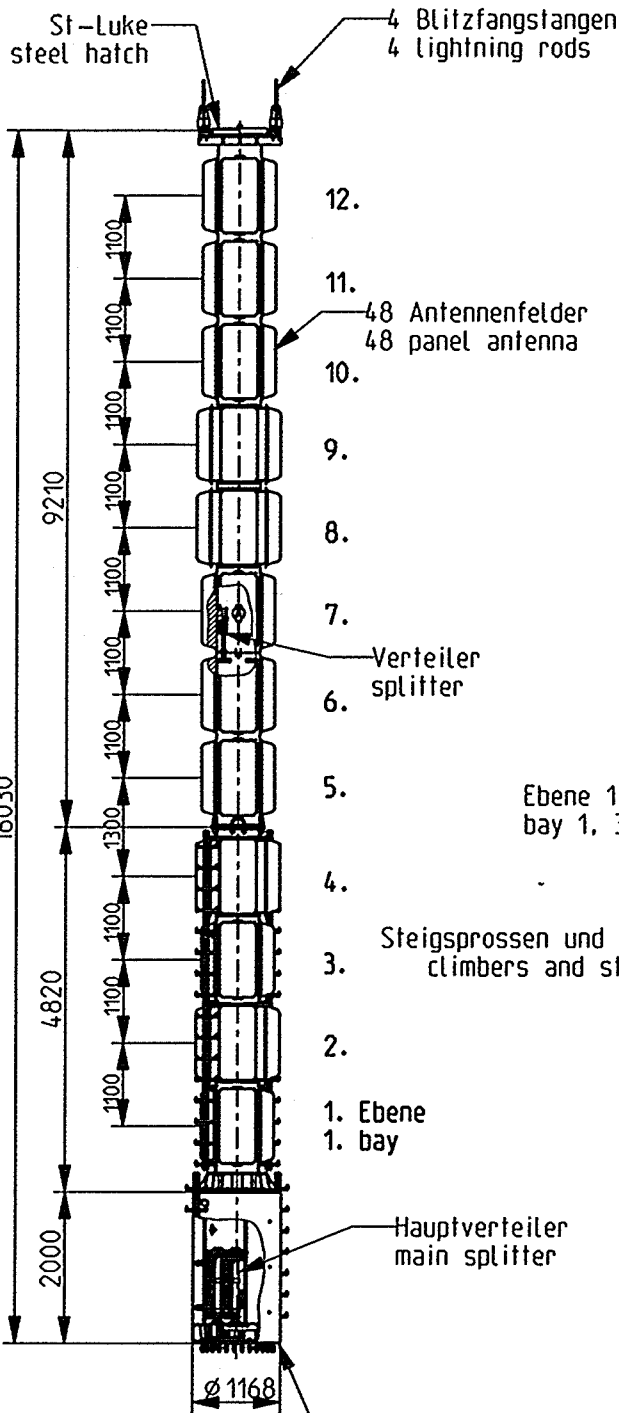
Database saved 02.05.2006 08:19:09



Befestigungsteile:
920409 M8x35 DIN933 ER (4x)
926156 A8,4 DIN125 ER (4x)
924130 M8 DIN934 ER (8x)

				Allgemein- toleranz	Rohgewicht ca. 9,5 kg	Oberfl.: steingrau RAL 7030			
				Bearb.	Tag	Name	Richtantenne Directional Antenna	Maßstab 1:10	
				Gep.	02.05.06	Heinrich Seebacher			
Ausgabe	Änderung	Tag	Name	KATHREIN 83022 Rosenheim		750 10175	f/MHz: 470 – 860	Blatt 1	

CAD generated



St-Innenflansch, Teilkreis Ø 1000,
30 Schrauben M30
steel inside flange, boltcircle Ø 1000,
30 screws, M30

database saved: 31.03.2008 14:26:07 - 75913474_LYNGDAL

Modell	75913474_LYNGDAL			Oberfl.:		[mm²]
Status	In Arbeit		1			
Zeichnung	75913474_LYNGDAL					
Status	In Arbeit		1			
				Allgemein- toleranz	Teilegewicht (g)	Material:

