

DVB Transmitting Antenna

GREIPSTAD

Type No. **75913 470**

TECHNICAL DATA

Constructional features 48 antenna panels 75010 175
(12 bays with 4 panels each)

Frequency range 470 ... 862 MHz

Operating channels 33 – 34 – 47 – 51 – 54 – 66 – 69

Polarization horizontal

Nominal impedance 50 Ω

Gain (referred to antenna input) $\begin{matrix} \Downarrow & \Downarrow & \Downarrow & \Downarrow \\ 15,2 & 16,0 & 16,3 & 15,7 \end{matrix}$ dB_d

VSWR $\leq 1,2$ at DTT channels

Input power (maximum) 7x 2,5 kW DTT

Input connector 2x 3 1/8" EIA

20.03.2008

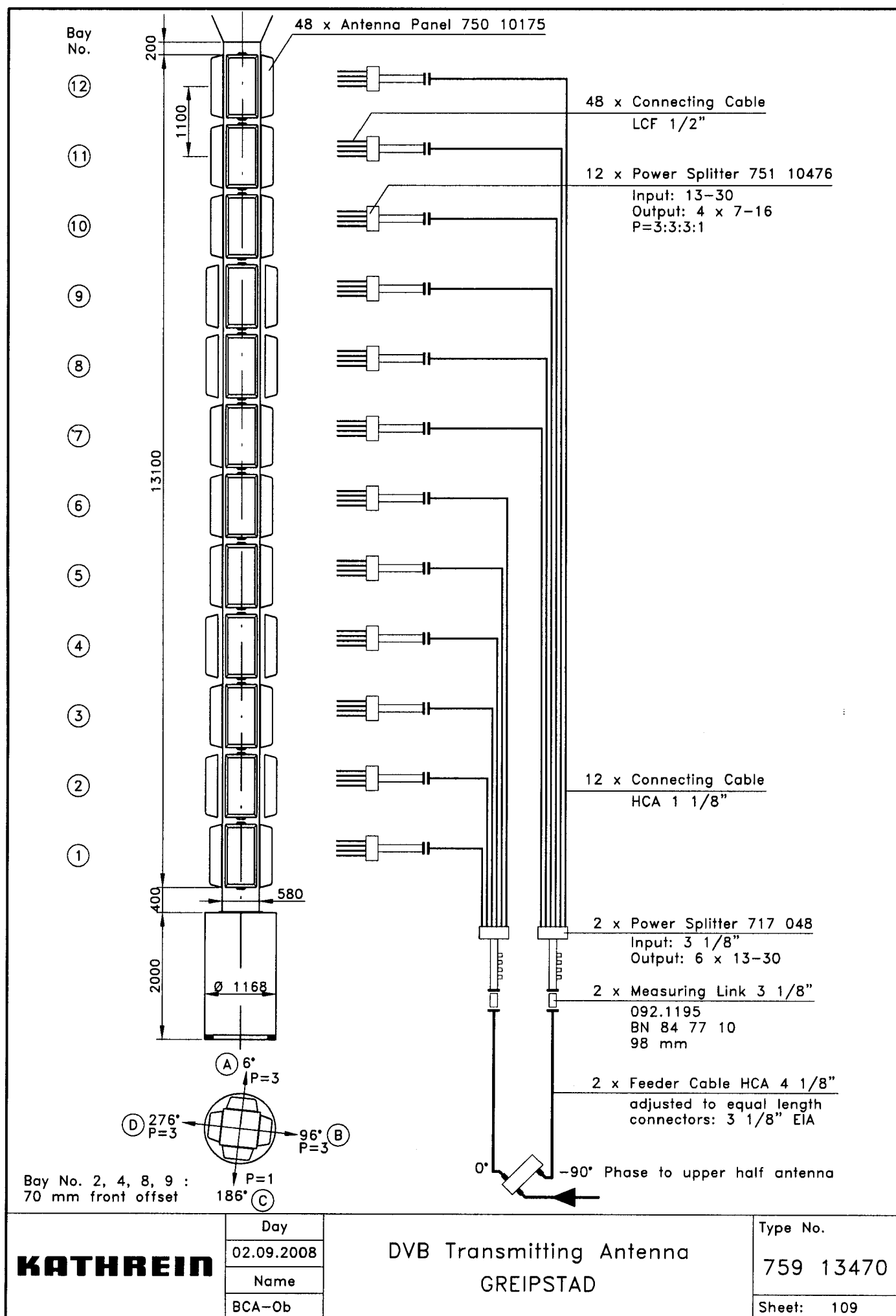
KATHREIN
BCA-Ob

DVB Transmitting Antenna

GREIPSTAD

Type No.

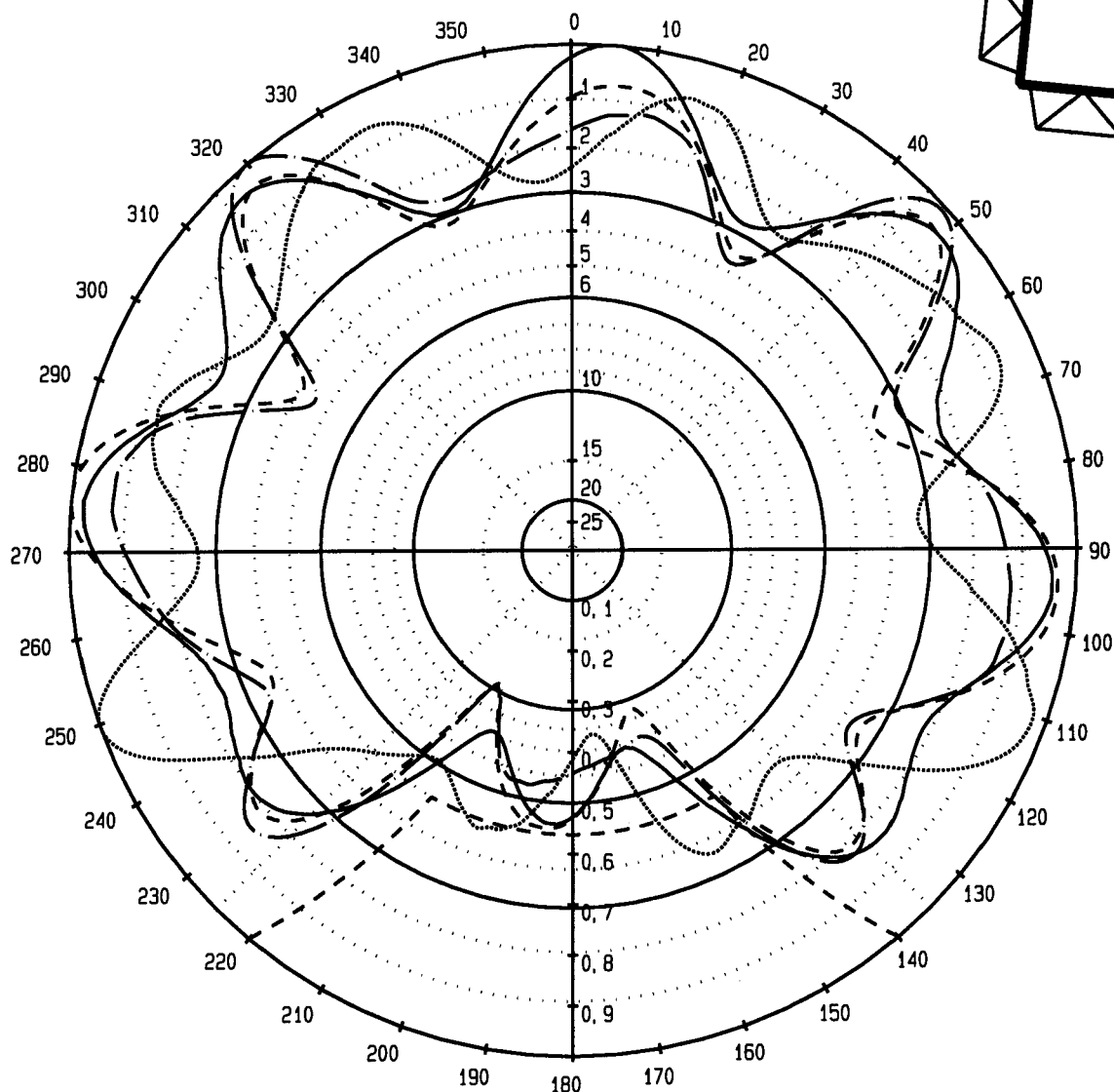
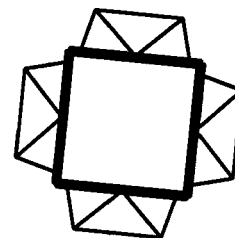
75913 470



CABLE LIST

f₀= 570,00 MHz

Pieces	Cable No.	Phases	Length [mm]	Cable type	Connectors
			l 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)
12	D	0	2.300		
1	C12	44	2.243		
1	C11	36	2.254		
1	C10	28	2.264		
1	C9	20	2.274		
1	C8	12	2.285		
1	C7	4	2.295		
1	C6	-4	2.305		
1	C5	-12	2.315		
1	C4	-20	2.326		
1	C3	-28	2.336		
1	C2	-36	2.346		
1	C1	-44	2.357		
		Total length=	110.400		
			l ₀ = 15.800	k= 0,92	
1	12	270	15.437	HF 1 1/8"Cu2Y	2x 13-30
1	11	257	15.454	(914.533)	(092.1172)
1	10	266	15.442		beide Stecker durchbohren
1	9	205	15.524		
1	8	198	15.534		
1	7	306	15.388		
1	6	149	15.600		
1	5	120	15.639		
1	4	37	15.750		
1	3	75	15.699		
1	2	36	15.752		
1	1	63	15.715		
		Total length=	186.934		
20.03.2008		DVB Transmitting Antenna			Type No.
KATHREIN		GREIPSTAD			75913 470
BCA-Ob					



frequency in MHz 570.000 682.000 738.000 858.000
 down-tilt in 0
 max / mean in dB 2.08 2.46 2.55 2.32

antenna type: 772419B 4 disk panel on mast 600; offset +15										cable design frequency: 570.000 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	6.0	6.0	.0	-15.0	.0	.0	3.0	0	0
					2	96.0	96.0	.0	-15.0	.0	.0	3.0	0	0
					3	186.0	186.0	.0	-15.0	.0	.0	1.0	0	0
					4	276.0	276.0	.0	-15.0	.0	.0	3.0	0	0

Channels 33-34-47-51-54-66-69

KATHREIN Rosenheim Germany	DVB Transmitting Antenna GREIPSTAD	Typ Nr. 75913470
		Bl.:

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

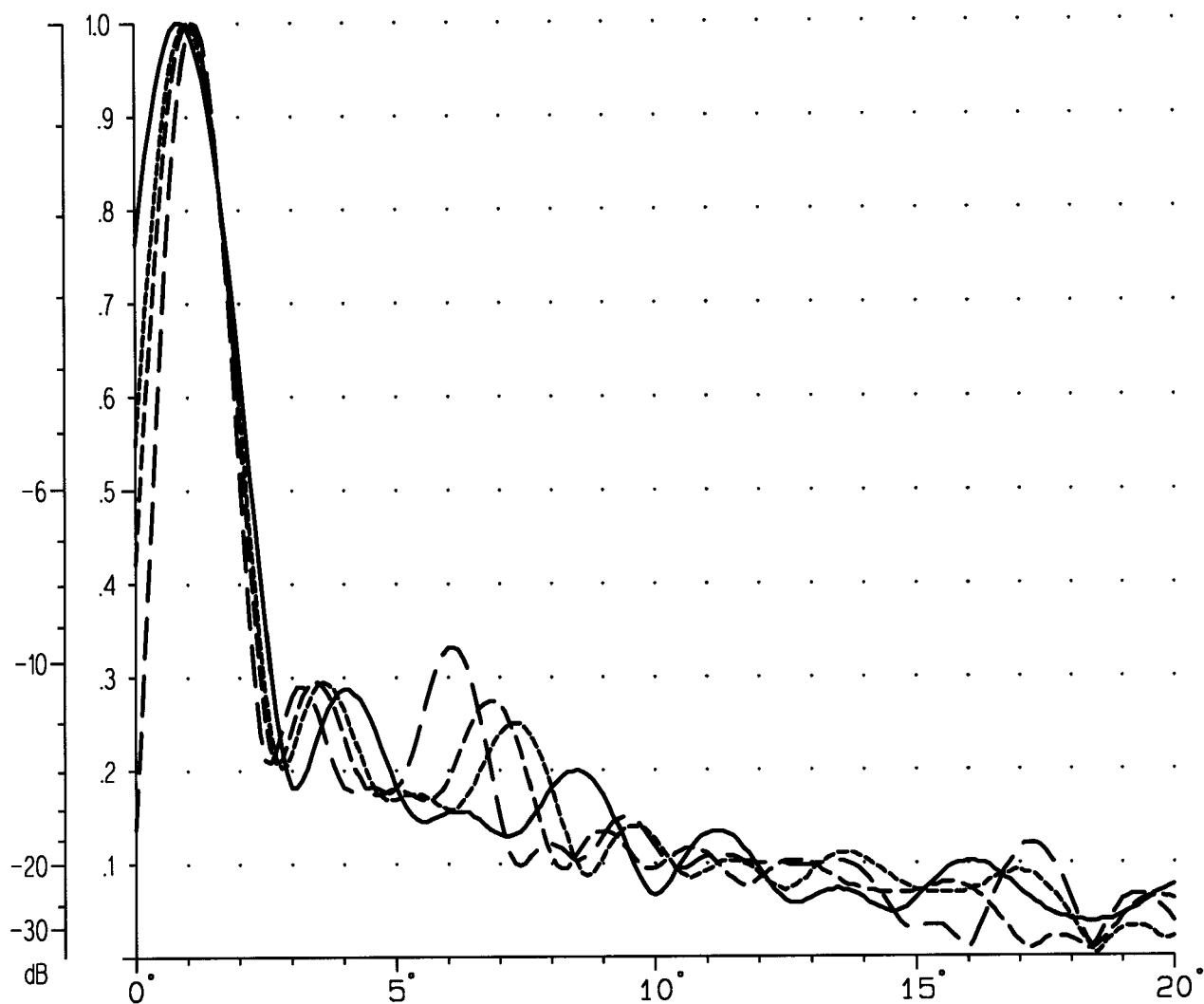
VERTICAL PATTERN

Frequency: 570.00 MHz

Amplitude pattern: 182

No.	Distance(mm)	Rad.offset(mm)	Phase(°)	Power(times)
12	1100	0	270.0 -90	1.00
11	1100	0	257.0 -90	1.00
10	1100	0	266.0 -90	1.00
9	1100	70	205.0 -90	1.00
8	1100	70	198.0 -90	1.00
7	1100	0	306.0 -90	1.00
6	1100	0	149.0	1.00
5	1100	0	120.0	1.00
4	1100	70	37.0	1.00
3	1150	0	75.0	1.00
2	1100	70	36.0	1.00
1	0	0	63.0	1.00

const.
Comp= 92 %



— 570.00 - - - 682.00 - . - 738.00 - - - 858.00 MHz

05-03-2008	DVB Transmitting Antenna	Type No.
KATHREIN BCA-Ob	GREIPSTAD Directions 270°+360°+90°	75913470-1

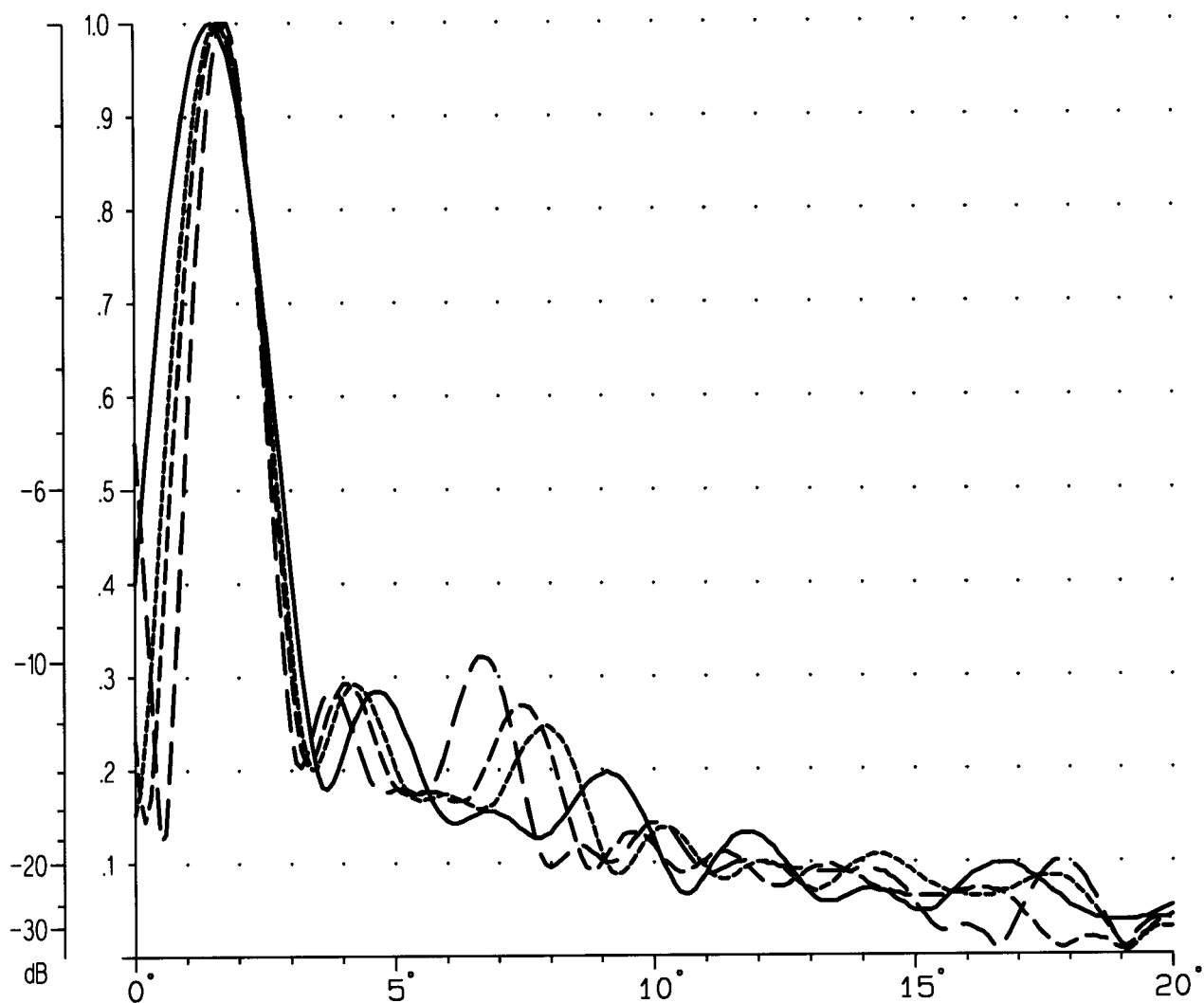
VERTICAL PATTERN

Frequency: 570.00 MHz

Amplitude pattern: 182

No.	Distance (mm)	Rad.offset (mm)	Phase (°)	Power (times)
12	1100	0	314.0 -90	1.00
11	1100	0	293.0 -90	1.00
10	1100	0	294.0 -90	1.00
9	1100	70	225.0 -90	1.00
8	1100	70	210.0 -90	1.00
7	1100	0	310.0 -90	1.00
6	1100	0	145.0	1.00
5	1100	0	108.0	1.00
4	1100	70	17.0	1.00
3	1150	0	47.0	1.00
2	1100	70	0.0	1.00
1	0	0	19.0	1.00

const.
Comp= 68 %

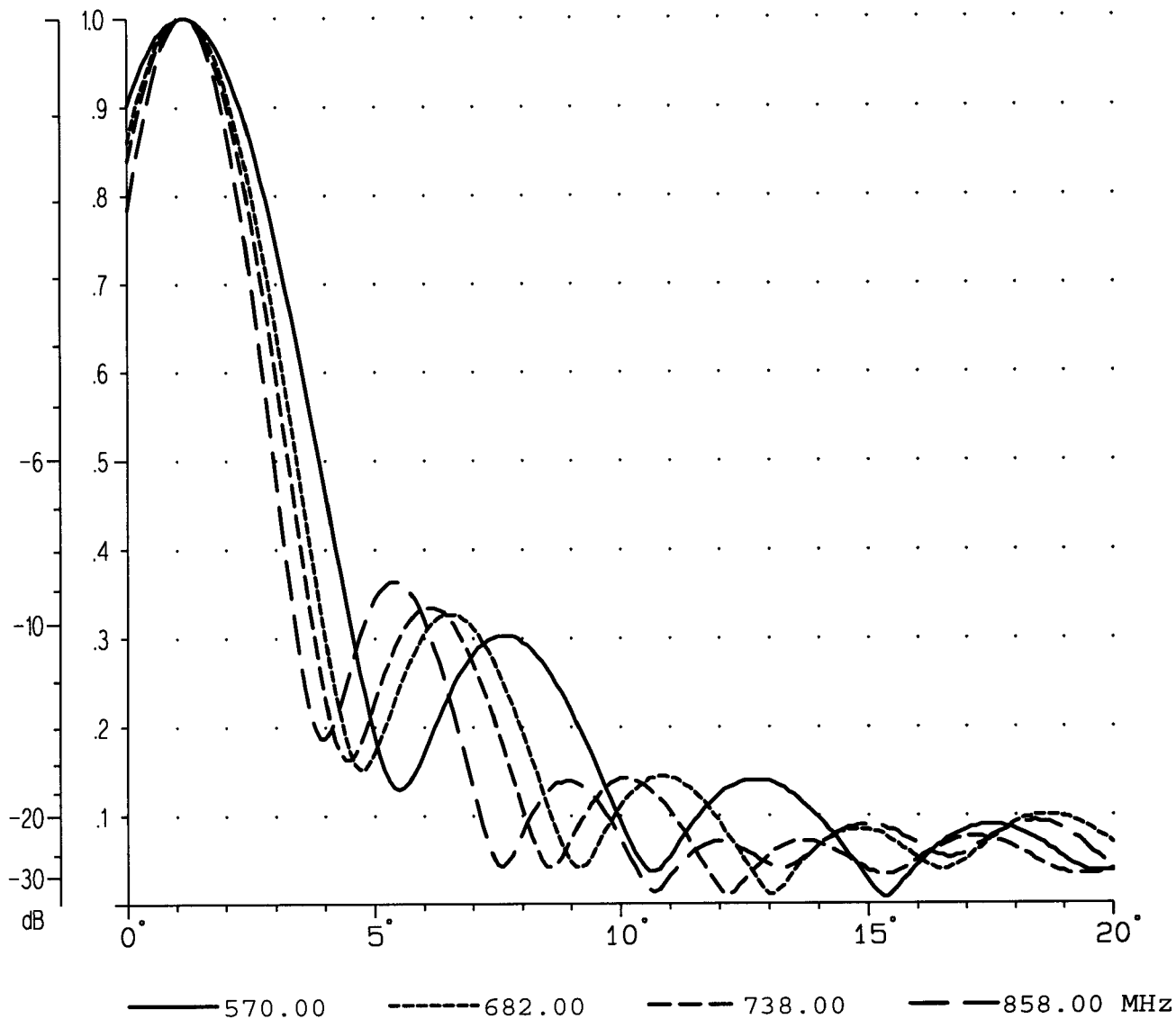


— 570.00 - - - - 682.00 - . - . 738.00 - - - 858.00 MHz

05-03-2008	DVB Transmitting Antenna	Type No.
KATHREIN BCA-Ob	GREIPSTAD Direction 180°	75913470-2

VERTICAL PATTERN

Frequency:		570.00 MHz			
Amplitude pattern:		182			
No.	Distance(mm)	Rad.offset(mm)	Phase(°)		Power(times)
12	1100	0	270.0	-90	0.00
11	1100	0	257.0	-90	0.00
10	1100	0	266.0	-90	0.00
9	1100	70	205.0	-90	0.00
8	1100	70	198.0	-90	0.00
7	1100	0	306.0	-90	0.00
6	1100	0	149.0		1.00
5	1100	0	120.0		1.00
4	1100	70	37.0		1.00
3	1150	0	75.0		1.00
2	1100	70	36.0		1.00
1	0	0	63.0		1.00
const.					
Comp= 71 %					



20-03-2008	DVB Transmitting Antenna Lower Half Antenna GREIPSTAD Directions 270°+360°+90°	Type No.
KATHREIN BCA-Ob		75913470-1

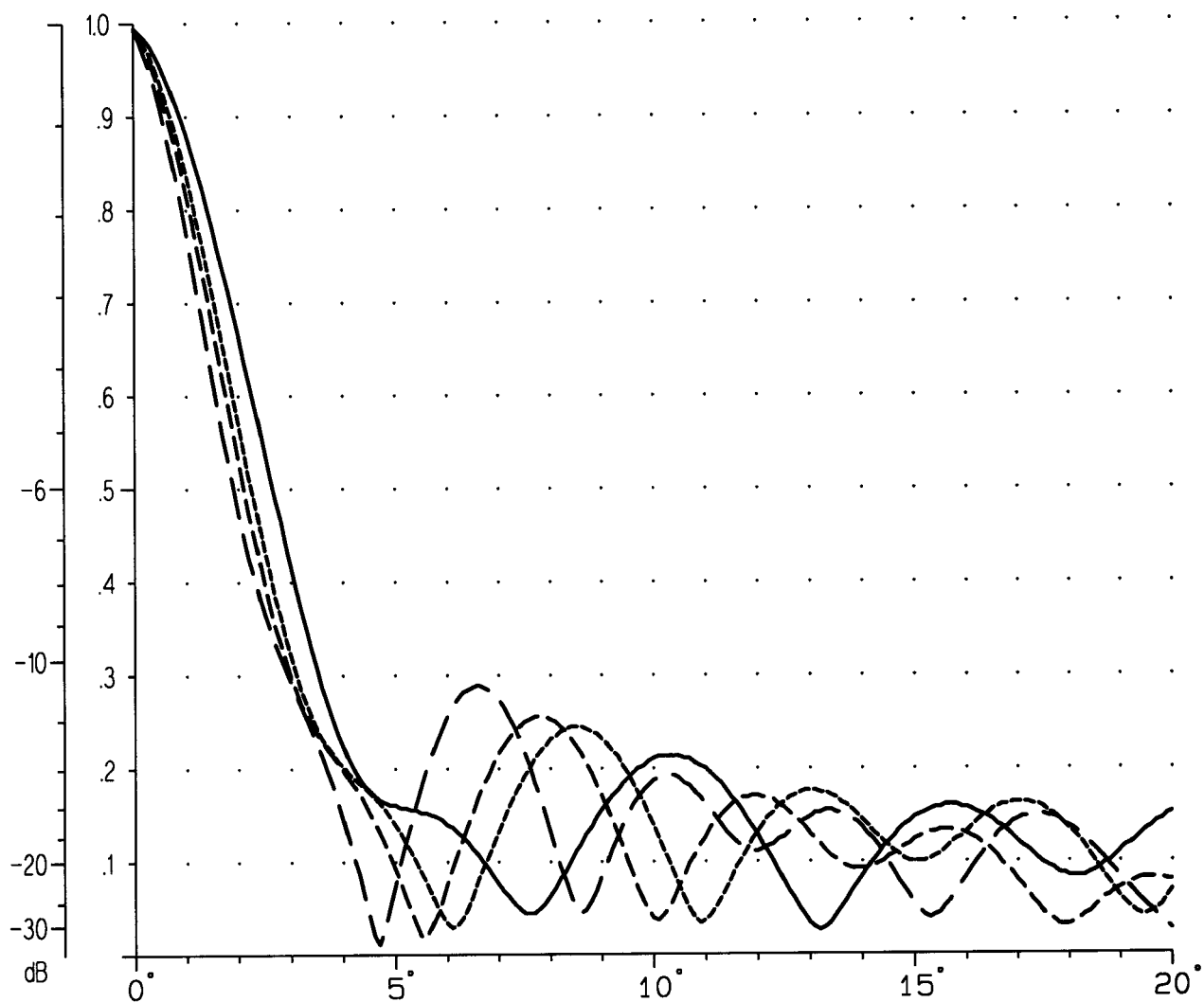
VERTICAL PATTERN

Frequency: 570.00 MHz

Amplitude pattern: 182

No.	Distance (mm)	Rad.offset (mm)	Phase (°)	Power (times)
12	1100	0	270.0 -90	1.00
11	1100	0	257.0 -90	1.00
10	1100	0	266.0 -90	1.00
9	1100	70	205.0 -90	1.00
8	1100	70	198.0 -90	1.00
7	1100	0	306.0 -90	1.00
6	1100	0	149.0	0.00
5	1100	0	120.0	0.00
4	1100	70	37.0	0.00
3	1150	0	75.0	0.00
2	1100	70	36.0	0.00
1	0	0	63.0	0.00

const.
Comp= 67 %



— 570.00 - - - - 682.00 - . - . - 738.00 - - - - 858.00 MHz

20-03-2008	DVB Transmitting Antenna Upper Half Antenna GREIPSTAD Directions 270°+360°+90°	Type No.
KATHREIN BCA-Ob		75913470-1

BAUKASTEN-STÜCKLISTE

75913470

DVB-SA Greipstad

Kommission:

Änd.-Nr.:

Ausdruck: 17.03.08

wirks. ab: 17.03.98

Blatt: 1

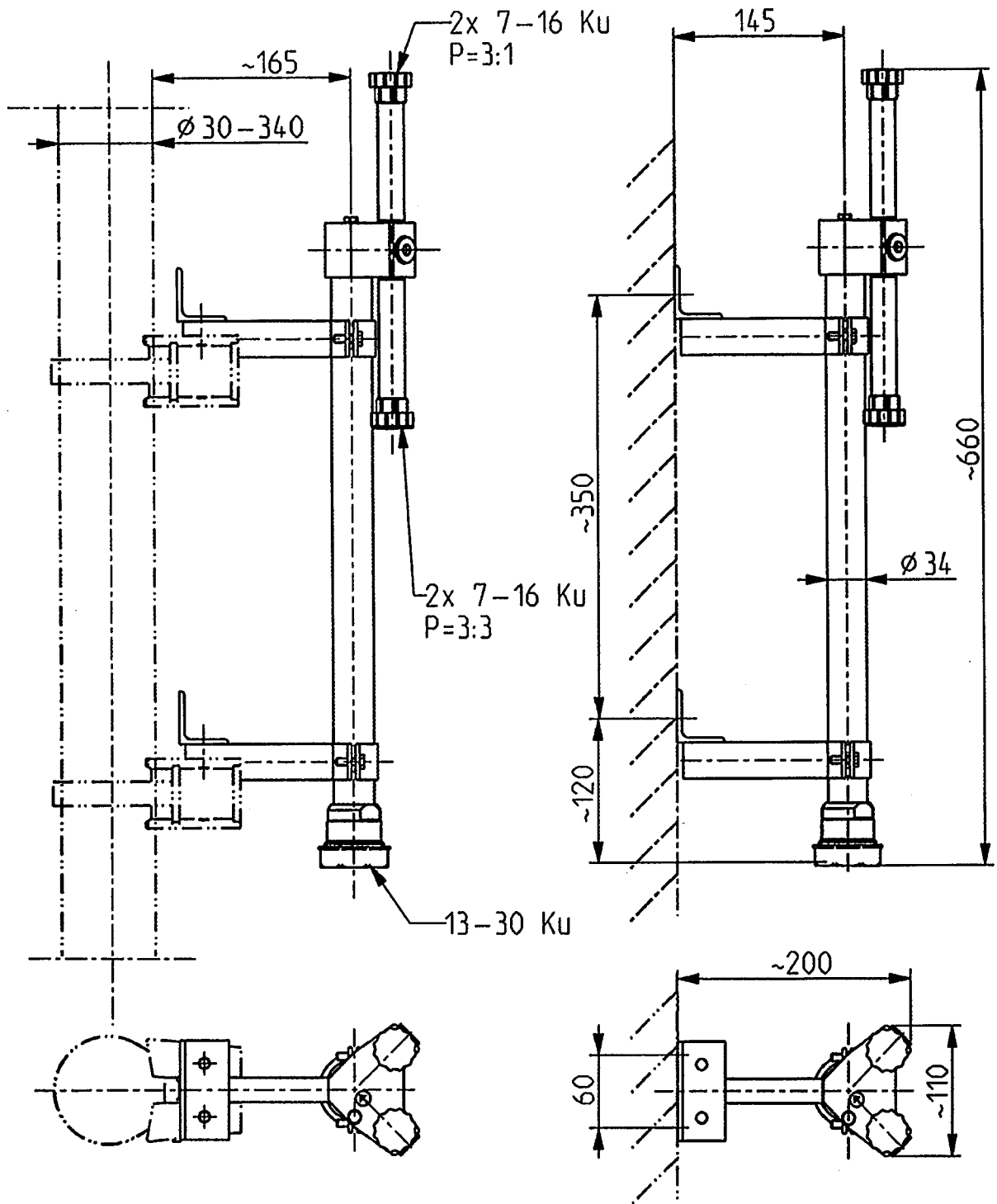
Alt.: 0

Var.: 0

Pos.	Al	K	Komponente	Bezeichnung	Menge	ME	D
0010	0	75010175	UHF FELD 4D 716	H GRAU	48,000	ST	
0020	0	75110476	UHF 4XVERT N OA 30 133>716	3:3:3:1	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	75913470-80	Verkabelung		1,000	ST	
0080	0	0922028	Übergangsverbinder 4 1/2" - 3 1/8"	EIA	2,000	ST	
0090	0	1698959	Innenleuchte kpl.		4,000	ST	
0100	0	172664	Schalter HNA TYP 119		1,000	ST	
0110	0	914717	EMV-Motoranschl-Leit.2YSL(St)CYv-J	4x1,5	25,000	M	
0120	0	914718	EMV-Motoranschl.Leit.2YSL(St)CYv-J	4x2,5	25,000	M	
0130	0	914718	EMV-Motoranschl.Leit.2YSL(St)CYv-J	4x2,5	25,000	M	
0140	0	1721395	VERSCHLUSS KPL		2,000	ST	
0150	0	0355696	Winkel 147x147x950		16,000	ST	
0160	0	1698021	Schelle kpl.		24,000	ST	
0170	0	1697738	Schelle kpl. D80mm		2,000	ST	
0180	0	1698145	Schelle kpl. D=80		2,000	ST	
0190	0	0335158	Vertikalträger L800		4,000	ST	
0200	0	0722065	Y-Baum		1,000	ST	
0210	0	0722053	Endsperre		1,000	ST	
0220	0	172818	Steigsperre unten		1,000	ST	
0230	0	0722055	Befestigungsbügel oben		1,000	ST	
0240	0	0722056	Befestigungsbügel unten		1,000	ST	
0250	0	928931	Blindniet 4x10,2 ER		128,000	ST	
0260	0	995132	Sikaflex 221T grau Dichtmasse		50,000	ST	

Pos.	Al	K	Komponente	Bezeichnung	Menge	ME	D
0270	0		75913470-90	Träger kpl.	1,000	ST	N
0280	0		072135	Kabelbinder L=340	400,000	ST	
0290	0		072613	Schlingband TY 29 M-X	100,000	ST	
0300	0		9202524	M 5X50 D933 ER	10,000	ST	
0310	0		9203010	M 6X30 D913 ER	10,000	ST	
20	0		9203013	M 6X25 D965 ER	10,000	ST	
0330	0		920464	M 10X30 D933 ER	10,000	ST	
0340	0		920527	Hakenkopfschr. M 12x40 50/30 St 4.6 tZn	10,000	ST	
0350	0		924082	M 5 D934 ER	20,000	ST	
0360	0		924102	M 6 D934 ER	40,000	ST	
0370	0		924150	M 10 D934 ER	20,000	ST	
0380	0		924180	M 12 D934 ER	20,000	ST	
0390	0		926102	SCHEIBE A 5,3 D125 ER	10,000	ST	
0400	0		926122	Federr A 6 D128 ER	10,000	ST	
0410	0		926129	Scheibe A 6,4 D125 ER	20,000	ST	
0420	0		926172	Scheibe A10,5 D125 ER	20,000	ST	
0430	0		926250	Scheibe A13 D125 ER	10,000	ST	
0440	0		9339346	Verp.Aufkl. 75913470	1,000	ST	

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

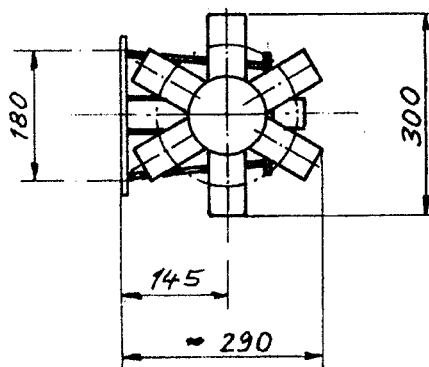


Database saved: 09.03.2006 09:28:02 - 75110476_ANT_VERT

Modell	75110476_ANT_VERT				Oberfl. RAL 7001 Silbergrau, Seidenm. Feinstruktur n. 936836				(mm²)				
Status	In Arbeit				1								
Zeichnung	75110476_ANT_VERT												
Status	In Arbeit				0								
					Allgemein- toleranz	Teilegewicht (g)		Material:					
								Ant. Vert.				Maßstab	
					Bearb.	09.03.06	S. Huber	Power Splitter				1:5	
					Gepr.	9/12/06	Seepacher						
						9/3/06	Huber						
					KATHREIN			75110476				Blatt	
					83022 Rosenheim							1/2	
Aus- gabe	Änderung	Tag	Name		f/MHz:470-860, P=3:3:3:1								

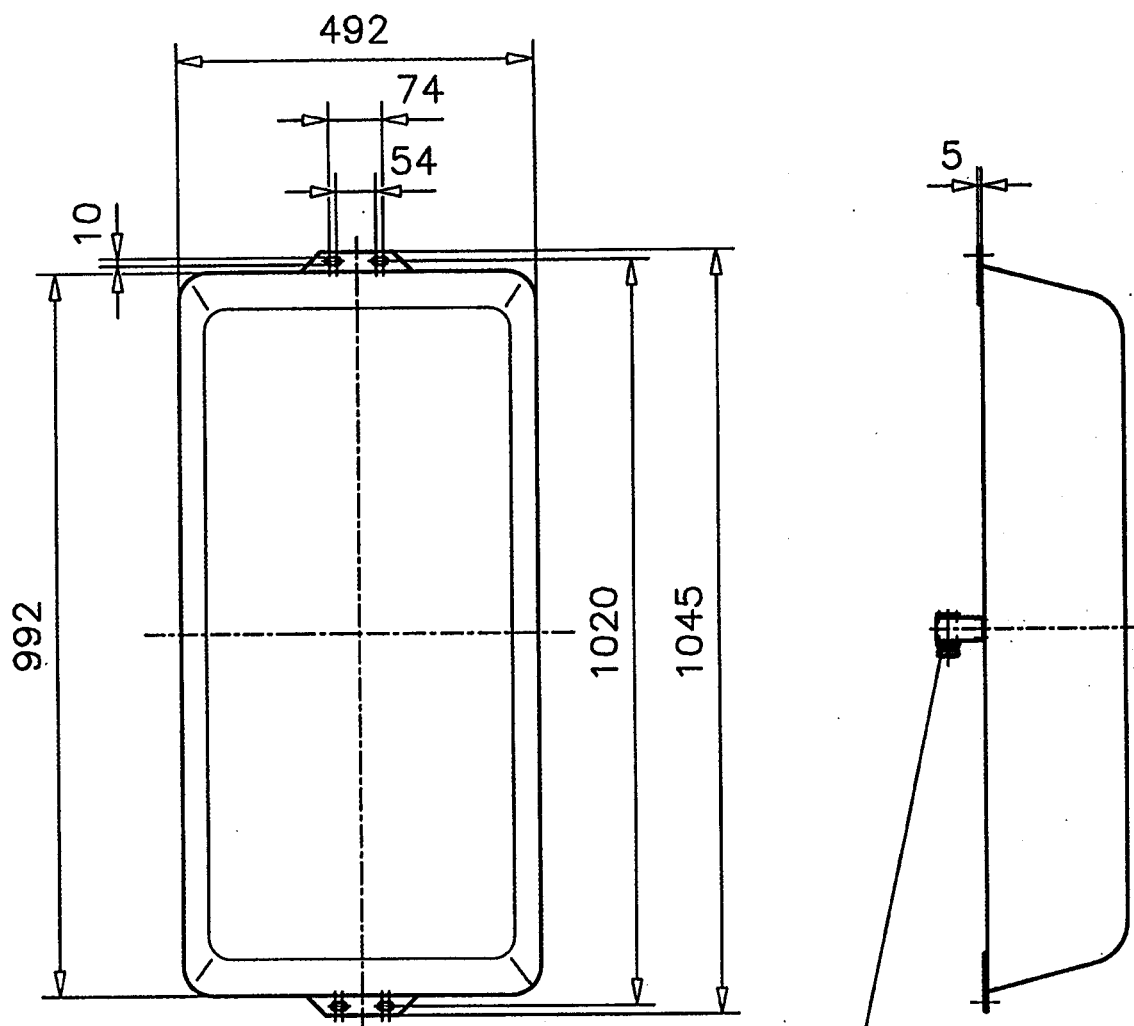
Technical drawing of a vertical assembly, likely a component of a machine or structure. The drawing shows a central vertical shaft or rod with various components attached. Dimensions are indicated in millimeters (mm) and inches (in).

- Overall height: 905 mm (35 1/8 in)
- Distance from base to first major component: 70 mm (2 3/4 in)
- Distance between major components: 550 mm (21 3/4 in)
- Distance from base to second major component: 400 mm (15 7/8 in)
- Distance from base to third major component: 80 mm (3 1/4 in)
- Labels: $\phi 11$ (indicating a diameter of 11 mm), $6 \times 13/30 Ku$ (likely a specification for a component), and $3 \frac{1}{8}'' EIA$ (likely a specification for a component).

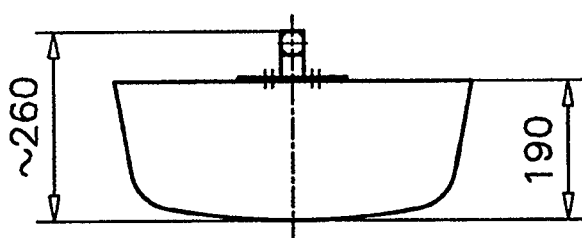


				Fragestoleranz	Rohgew. %	Oberfl.:	
					Tag	Name	
				Bearb.			
				Gepr.	17.2.84	Aischer	
				KATHREIN-Werke KG			
				82 Rosenheim 2			
				F IV/V-Antennenverteiler			Maßstab 1:10
				717 048			Blatt 1
9	5	neuerst.	17.2.84	Aischer			
Ausgabe		Anderung	Tag	Name			

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



7/16 Ge-Ku

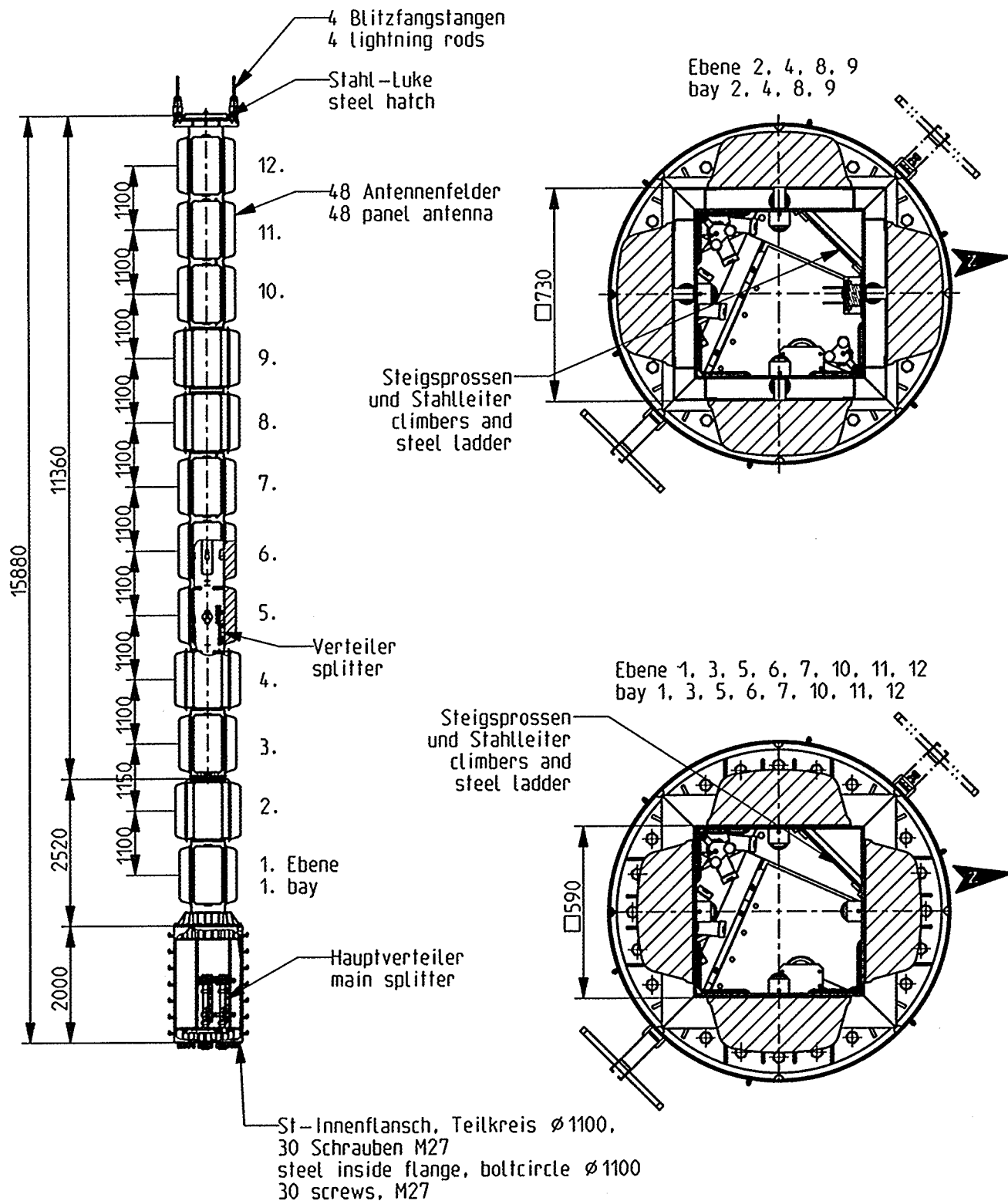


Befestigungsteile:

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

database saved 02.05.2006 08:19:09

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



Modell75913470_GREIPSTAD

StatusIn Arbeit

Zeichnung75913470_GREIPSTAD

StatusIn Arbeit

2

3

Oberfl.:

[mm²]

</

