

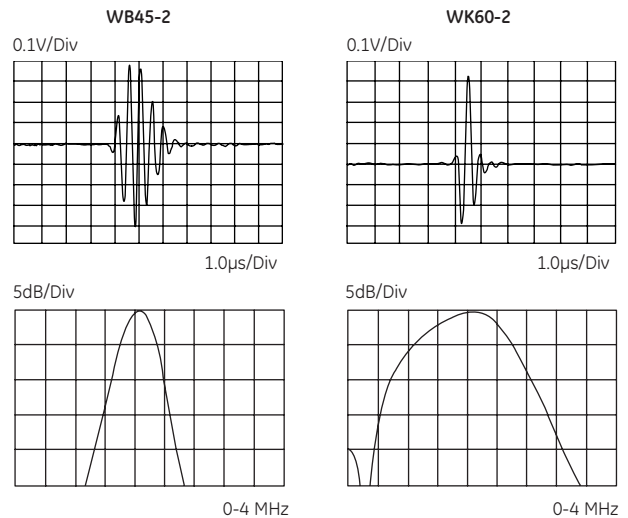
Large Angle Beam Transducers—European Standards

Types WB/WK and SWB/SWK

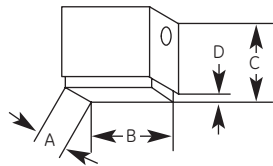


Types WB/WK and SWB/SWK

Case Type	A		B		C		D	
	mm	in	mm	in	mm	in	mm	in
Type 20	21.5	0.85	37	1.46	31	1.22	3	0.12
Type 21	29	1.14	53.5	2.11	45	1.77	5	0.20



Typical waveform and frequency spectrum



Type	Order Code	a x b		f (MHz)	B (Steel)	N		Notes	Sketch
		mm	in			mm	in		
WB 45-1	56993	20 x 22	.79 x .87	1	45	45	1.8		Type 21
WB 45-1-EN	500207	20 x 22	.79 x .87	1	45	45	1.8	DIN EN 12668-2 compliant	
WB 45-01	57217	20 x 22	.79 x .87	1	45	45	1.8	Top connector	
WB 60-1	56994	20 x 22	.79 x .87	1	60	45	1.8		
WB 60-1-EN	500208	20 x 22	.79 x .87	1	60	45	1.8	DIN EN 12668-2 compliant	
WB 60-01	57218	20 x 22	.79 x .87	1	60	45	1.8	Top connector	
WB 70-1	56995	20 x 22	.79 x .87	1	70	45	1.8		
WB 70-1-EN	500209	20 x 22	.79 x .87	1	70	45	1.8	DIN EN 12668-2 compliant	
WB 70-01	57219	20 x 22	.79 x .87	1	70	45	1.8	Top connector	
WB 35-2	56998	20 x 22	.79 x .87	2	38	90	3.5		
WB 35-2-EN	500054	20 x 22	.79 x .87	2	38	90	3.5	DIN EN 12668-2 compliant	
WB 35-02	57222	20 x 22	.79 x .87	2	38	90	3.5	Top connector	
WB 35-02EN	500058	20 x 22	.79 x .87	2	38	90	3.5	DIN EN 12668-2 compliant	
WB 45-2	56999	20 x 22	.79 x .87	2	45	90	3.5		
WB 45-2-EN	500055	20 x 22	.79 x .87	2	45	90	3.5	DIN EN 12668-2 compliant	
WB 45-02	57223	20 x 22	.79 x .87	2	45	90	3.5	Top connector	
WB 45-02EN	500059	20 x 22	.79 x .87	2	45	90	3.5	DIN EN 12668-2 compliant	
WB 60-2	57000	20 x 22	.79 x .87	2	60	90	3.5		
WB 60-2-EN	500056	20 x 22	.79 x .87	2	60	90	3.5	DIN EN 12668-2 compliant	
WB 60-02	57224	20 x 22	.79 x .87	2	60	90	3.5	Top connector	
WB 60-02EN	500060	20 x 22	.79 x .87	2	60	90	3.5	DIN EN 12668-2 compliant	
WB 70-2	57001	20 x 22	.79 x .87	2	70	90	3.5		
WB 70-2-EN	500057	20 x 22	.79 x .87	2	70	90	3.5	DIN EN 12668-2 compliant	
WB 70-02	57225	20 x 22	.79 x .87	2	70	90	3.5	Top connector	
WB 70-02EN	500280	20 x 22	.79 x .87	2	70	90	3.5	DIN EN 12668-2 compliant	
WB 80-2	57002	20 x 22	.79 x .87	2	77	90	3.5		
WB 80-2-EN	500278	20 x 22	.79 x .87	2	77	90	3.5	DIN EN 12668-2 compliant	
WB 80-02	57226	20 x 22	.79 x .87	2	77	90	3.5	Top connector	
WB 90-2	57003	20 x 22	.79 x .87	2	90	90	3.5		
WB 90-2-EN	500266	20 x 22	.79 x .87	2	90	90	3.5	DIN EN 12668-2 compliant	
WB 90-02	57227	20 x 22	.79 x .87	2	90	90	3.5	Top connector	



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Type	Order Code	a x b		f (MHz)	β (Steel)	N		Notes	Sketch
		mm	in			mm	in		
WB 35-4	57004	20 x 22	.79 x .87	4	38	180	7.1		Type 21
WB 35-04	57228	20 x 22	.79 x .87	4	38	180	7.1	Top connector	
WB 45-4	57005	20 x 22	.79 x .87	4	45	180	7.1		
WB 45-4-EN	500200	20 x 22	.79 x .87	4	45	180	7.1	DIN EN 12668-2 compliant	
WB 45-04	57229	20 x 22	.79 x .87	4	45	180	7.1	Top connector	
WB 60-4	57006	20 x 22	.79 x .87	4	60	180	7.1		
WB 60-4-EN	500201	20 x 22	.79 x .87	4	60	180	7.1	DIN EN 12668-2 compliant	
WB 60-04	57230	20 x 22	.79 x .87	4	60	180	7.1	Top connector	
WB 70-4	57007	20 x 22	.79 x .87	4	70	180	7.1		
WB 70-4-EN	500202	20 x 22	.79 x .87	4	70	180	7.1	DIN EN 12668-2 compliant	
WB 70-04	57231	20 x 22	.79 x .87	4	70	180	7.1	Top connector	
WB 80-4	57008	20 x 22	.79 x .87	4	77	180	7.1		
WB 80-04	57232	20 x 22	.79 x .87	4	77	180	7.1	Top connector	
SWB 45-2	58414	14 x 14	.55 x .55	2	45	39	1.5		Type 20
SWB 60-2	58415	14 x 14	.55 x .55	2	60	39	1.5		
SWB 70-2	58416	14 x 14	.55 x .55	2	70	39	1.5		
SWB 45-5	58420	14 x 14	.55 x .55	5	45	98	3.9		
SWB 60-5	58421	14 x 14	.55 x .55	5	60	98	3.9		
SWB 70-5	58422	14 x 14	.55 x .55	5	70	98	3.9		
WK 45-1	67889	20 x 22	.79 x .87	1	45	45	1.8	Piezocomposite element	Type 21
WK 60-1	67890	20 x 22	.79 x .87	1	60	45	1.8		
WK 70-1	67891	20 x 22	.79 x .87	1	70	45	1.8		
WK 45-2	57011	20 x 22	.79 x .87	2	45	90	3.5		
WK 60-2	57012	20 x 22	.79 x .87	2	60	90	3.5		
WK 70-2	57013	20 x 22	.79 x .87	2	70	90	3.5		
SWK 45-2	58843	14 x 14	.55 x .55	2	45	39	1.5	Piezocomposite element	Type 20
SWK 60-2	58844	14 x 14	.55 x .55	2	60	39	1.5		
SWK 70-2	58845	14 x 14	.55 x .55	2	70	39	1.5		

Custom configurations are available by special order.

For explanations to the table data, refer to Selection Criteria on pages 2 through 4.

Accessories

Description	Type	Remark
Cable	PKLL2 (50326)	for WB.., WK..
	MPKL2 (50486)	for SWB.., SWK..
Spare sole (1 set = 10 pcs)	WP(E) (57276)	for WB.., WK..
	SWP (58514)	for SWB.., SWK