

# LXV Series

- Low impedance
- Endurance with ripple current: 105°C 2000 to 5000 hours
- Solvent-proof type (see PRECAUTIONS AND GUIDELINES)
- Pb-free design

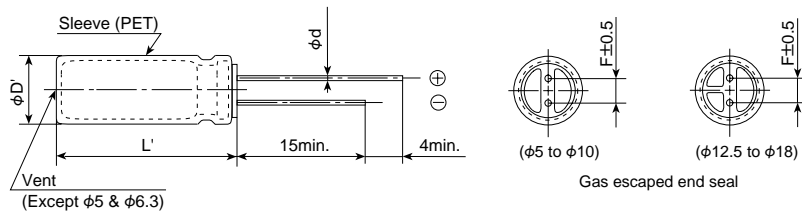


## ◆ SPECIFICATIONS

Items	Characteristics										
Category											
Temperature Range	-55 to +105°C										
Rated Voltage Range	6.3 to 100V <sub>dc</sub>										
Capacitance Tolerance	±20% (M) (at 20°C, 120Hz)										
Leakage Current	I=0.01CV or 3μA, whichever is greater. Where, I : Max. leakage current (μA), C : Nominal capacitance (μF), V : Rated voltage (V) (at 20°C after 2 minutes)										
Dissipation Factor (tanδ)	Rated voltage (V <sub>dc</sub> )	6.3V	10V	16V	25V	35V	50V	63V	80V	100V	
	tanδ (Max.)	0.22	0.19	0.16	0.14	0.12	0.10	0.10	0.09	0.08	
	When nominal capacitance exceeds 1000μF, add 0.02 to the value above for each 1000μF increase. (at 20°C, 120Hz)										
Low Temperature Characteristics	Capacitance change ΔC (-55°C/+20°C)	0.7min.									
	Max. impedance ratio (-55°C/+20°C)	3max.(6.3V <sub>dc</sub> : 4max.) (at 120Hz)									
Endurance	The following specifications shall be satisfied when the capacitors are restored to 20°C after subjected to DC voltage with the rated ripple current is applied for the specified period of time at 105°C.										
	Time	φ5 to 6.3 : 2000hours			φ8 & 10 : 3000hours			φ12.5 to φ18 : 5000hours			
	Capacitance change	≤±20% of the initial value									
	D.F. (tanδ)	≤200% of the initial specified value									
	Leakage current	≤The initial specified value									
Shelf Life	The following specifications shall be satisfied when the capacitors are restored to 20°C after exposing them for 1000 hours at 105°C without voltage applied.										
	Capacitance change	≤±20% of the initial value									
	D.F. (tanδ)	≤200% of the initial specified value									
	Leakage current	≤The initial specified value									

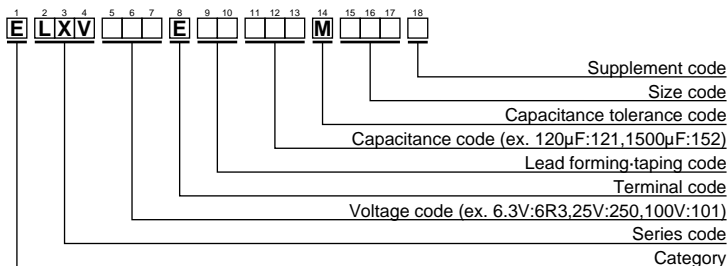
## ◆ DIMENSIONS [mm]

- Terminal Code : E



φD	5	6.3	8	10	12.5	16	18
φd	0.5	0.5	0.6	0.6	0.6	0.8	0.8
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
φD'	φD+0.5max.						
L'	L+1.5max.						

## ◆ PART NUMBERING SYSTEM



Please refer to "A guide to global code (radial lead type)"



◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mA rms/105°C, 100kHz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mA rms/105°C, 100kHz)	Part No.	
			20°C	-10°C						20°C	-10°C			
6.3	120	5 × 11.5	0.72	1.8	165	ELXV6R3E□□121MEB5D	16	2700	12.5 × 35	0.027	0.068	2230	ELXV160E□□272MK35S	
	220	6.3 × 11.5	0.38	0.95	255	ELXV6R3E□□221MFB5D		2700	16 × 25	0.028	0.070	2190	ELXV160E□□272ML25S	
	330	6.3 × 15	0.27	0.68	330	ELXV6R3E□□331MF15D		3300	12.5 × 40	0.024	0.060	2460	ELXV160E□□332MK40S	
	390	8 × 12	0.20	0.50	415	ELXV6R3E□□391MH12D		3300	18 × 20	0.036	0.090	1940	ELXV160E□□332MM20S	
	470	10 × 12.5	0.12	0.30	635	ELXV6R3E□□471MJC5S		3900	16 × 30	0.025	0.063	2510	ELXV160E□□392ML30S	
	560	8 × 15	0.16	0.40	495	ELXV6R3E□□561MH15D		3900	18 × 25	0.027	0.068	2350	ELXV160E□□392MM25S	
	680	10 × 16	0.084	0.21	825	ELXV6R3E□□681MJ16S		4700	16 × 35	0.022	0.055	2770	ELXV160E□□472ML35S	
	820	8 × 20	0.11	0.28	640	ELXV6R3E□□821MH20D		4700	18 × 30	0.024	0.060	2720	ELXV160E□□472MM30S	
	1200	10 × 20	0.062	0.16	1060	ELXV6R3E□□122MJ20S		5600	16 × 40	0.018	0.045	3110	ELXV160E□□562ML40S	
	1500	10 × 25	0.052	0.13	1260	ELXV6R3E□□152MJ25S		6800	18 × 35	0.021	0.053	3050	ELXV160E□□682MM35S	
	2200	10 × 30	0.044	0.11	1450	ELXV6R3E□□222MJ30S		8200	18 × 40	0.017	0.043	3300	ELXV160E□□822MM40S	
	2200	12.5 × 20	0.046	0.12	1360	ELXV6R3E□□222MK20S		25	39	5 × 11.5	0.72	1.8	165	ELXV250E□□390MEB5D
	2700	12.5 × 25	0.034	0.085	1700	ELXV6R3E□□272MK25S			82	6.3 × 11.5	0.38	0.95	255	ELXV250E□□820MFB5D
	3900	12.5 × 30	0.030	0.075	1980	ELXV6R3E□□392MK30S			120	6.3 × 15	0.27	0.68	330	ELXV250E□□121MF15D
	3900	16 × 20	0.038	0.095	1770	ELXV6R3E□□392ML20S			150	8 × 12	0.20	0.50	415	ELXV250E□□151MH12D
	4700	12.5 × 35	0.027	0.068	2230	ELXV6R3E□□472MK35S			180	10 × 12.5	0.12	0.30	635	ELXV250E□□181MJC5S
	5600	12.5 × 40	0.024	0.060	2460	ELXV6R3E□□562MK40S			220	8 × 15	0.16	0.40	495	ELXV250E□□221MH15D
	5600	16 × 25	0.028	0.070	2190	ELXV6R3E□□562ML25S			330	8 × 20	0.11	0.28	640	ELXV250E□□331MH20D
	5600	18 × 20	0.036	0.090	1940	ELXV6R3E□□562MM20S			330	10 × 16	0.084	0.21	825	ELXV250E□□331MJ16S
	6800	16 × 30	0.025	0.063	2510	ELXV6R3E□□682ML30S			470	10 × 20	0.062	0.16	1060	ELXV250E□□471MJ20S
6800	18 × 25	0.027	0.068	2350	ELXV6R3E□□682MM25S	560	10 × 25		0.052	0.13	1260	ELXV250E□□561MJ25S		
8200	16 × 35	0.022	0.055	2770	ELXV6R3E□□822ML35S	820	10 × 30		0.044	0.11	1450	ELXV250E□□821MJ30S		
10000	16 × 40	0.018	0.045	3110	ELXV6R3E□□103ML40S	820	12.5 × 20		0.046	0.12	1360	ELXV250E□□821MK20S		
10000	18 × 30	0.024	0.060	2720	ELXV6R3E□□103MM30S	1000	12.5 × 25		0.034	0.085	1700	ELXV250E□□102MK25S		
12000	18 × 35	0.021	0.053	3050	ELXV6R3E□□123MM35S	1500	12.5 × 30		0.030	0.075	1980	ELXV250E□□152MK30S		
15000	18 × 40	0.017	0.043	3300	ELXV6R3E□□153MM40S	1500	16 × 20		0.038	0.095	1770	ELXV250E□□152ML20S		
10	82	5 × 11.5	0.72	1.8	165	ELXV100E□□820MEB5D	1800		12.5 × 35	0.027	0.068	2230	ELXV250E□□182MK35S	
	180	6.3 × 11.5	0.38	0.95	255	ELXV100E□□181MFB5D	1800		16 × 25	0.028	0.070	2190	ELXV250E□□182ML25S	
	270	6.3 × 15	0.27	0.68	330	ELXV100E□□271MF15D	2200		12.5 × 40	0.024	0.060	2460	ELXV250E□□222MK40S	
	330	8 × 12	0.20	0.50	415	ELXV100E□□331MH12D	2200		18 × 20	0.036	0.090	1940	ELXV250E□□222MM20S	
	390	10 × 12.5	0.12	0.30	635	ELXV100E□□391MJC5S	2700		16 × 30	0.025	0.063	2510	ELXV250E□□272ML30S	
	470	8 × 15	0.16	0.40	495	ELXV100E□□471MH15D	2700	18 × 25	0.027	0.068	2350	ELXV250E□□272MM25S		
	680	8 × 20	0.11	0.28	640	ELXV100E□□681MH20D	3300	16 × 35	0.022	0.055	2770	ELXV250E□□332ML35S		
	680	10 × 16	0.084	0.21	825	ELXV100E□□681MJ16S	3300	18 × 30	0.024	0.060	2720	ELXV250E□□332MM30S		
	1000	10 × 20	0.062	0.16	1060	ELXV100E□□102MJ20S	3900	16 × 40	0.018	0.045	3110	ELXV250E□□392ML40S		
	1200	10 × 25	0.052	0.13	1260	ELXV100E□□122MJ25S	3900	18 × 35	0.021	0.053	3050	ELXV250E□□392MM35S		
	1500	10 × 30	0.044	0.11	1450	ELXV100E□□152MJ30S	4700	18 × 40	0.017	0.043	3300	ELXV250E□□472MM40S		
	1800	12.5 × 20	0.046	0.12	1360	ELXV100E□□182MK20S	35	27	5 × 11.5	0.72	1.8	165	ELXV350E□□270MEB5D	
	2200	12.5 × 25	0.034	0.085	1700	ELXV100E□□222MK25S		56	6.3 × 11.5	0.38	0.95	255	ELXV350E□□560MFB5D	
	2700	12.5 × 30	0.030	0.075	1980	ELXV100E□□272MK30S		82	6.3 × 15	0.27	0.68	330	ELXV350E□□820MF15D	
	3300	12.5 × 35	0.027	0.068	2230	ELXV100E□□332MK35S		120	8 × 12	0.20	0.50	415	ELXV350E□□121MH12D	
	3300	16 × 20	0.038	0.095	1770	ELXV100E□□332ML20S		120	10 × 12.5	0.12	0.30	635	ELXV350E□□121MJC5S	
	3900	12.5 × 40	0.024	0.060	2460	ELXV100E□□392MK40S		180	8 × 15	0.16	0.40	495	ELXV350E□□181MH15D	
	3900	16 × 25	0.028	0.070	2190	ELXV100E□□392ML25S		220	8 × 20	0.11	0.28	640	ELXV350E□□221MH20D	
	3900	18 × 20	0.036	0.090	1940	ELXV100E□□392MM20S		220	10 × 16	0.084	0.21	825	ELXV350E□□221MJ16S	
	4700	18 × 25	0.027	0.068	2350	ELXV100E□□472MM25S		330	10 × 20	0.062	0.16	1060	ELXV350E□□331MJ20S	
5600	16 × 30	0.025	0.063	2510	ELXV100E□□562ML30S	390		10 × 25	0.052	0.13	1260	ELXV350E□□391MJ25S		
6800	16 × 35	0.022	0.055	2770	ELXV100E□□682ML35S	560		10 × 30	0.044	0.11	1450	ELXV350E□□561MJ30S		
6800	18 × 30	0.024	0.060	2720	ELXV100E□□682MM30S	560		12.5 × 20	0.046	0.12	1360	ELXV350E□□561MK20S		
8200	16 × 40	0.018	0.045	3110	ELXV100E□□822ML40S	680		12.5 × 25	0.034	0.085	1700	ELXV350E□□681MK25S		
8200	18 × 35	0.021	0.053	3050	ELXV100E□□822MM35S	1000		12.5 × 30	0.030	0.075	1980	ELXV350E□□102MK30S		
10000	18 × 40	0.017	0.043	3300	ELXV100E□□103MM40S	1000		16 × 20	0.038	0.095	1770	ELXV350E□□102ML20S		
16	56	5 × 11.5	0.72	1.8	165	ELXV160E□□560MEB5D		1200	12.5 × 35	0.027	0.068	2230	ELXV350E□□122MK35S	
	120	6.3 × 11.5	0.38	0.95	255	ELXV160E□□121MFB5D		1200	16 × 25	0.028	0.070	2190	ELXV350E□□122ML25S	
	180	6.3 × 15	0.27	0.68	330	ELXV160E□□181MF15D		1500	12.5 × 40	0.024	0.060	2460	ELXV350E□□152MK40S	
	270	8 × 12	0.20	0.50	415	ELXV160E□□271MH12D		1500	18 × 20	0.036	0.090	1940	ELXV350E□□152MM20S	
	270	10 × 12.5	0.12	0.30	635	ELXV160E□□271MJC5S		1800	16 × 30	0.025	0.063	2510	ELXV350E□□182ML30S	
	330	8 × 15	0.16	0.40	495	ELXV160E□□331MH15D	1800	18 × 25	0.027	0.068	2350	ELXV350E□□182MM25S		
	470	8 × 20	0.11	0.28	640	ELXV160E□□471MH20D	2200	16 × 35	0.022	0.055	2770	ELXV350E□□222ML35S		
	470	10 × 16	0.084	0.21	825	ELXV160E□□471MJ16S	2200	18 × 30	0.024	0.060	2720	ELXV350E□□222MM30S		
	680	10 × 20	0.062	0.16	1060	ELXV160E□□681MJ20S	2700	16 × 40	0.018	0.045	3110	ELXV350E□□272ML40S		
	820	10 × 25	0.052	0.13	1260	ELXV160E□□821MJ25S	2700	18 × 35	0.021	0.053	3050	ELXV350E□□272MM35S		
	1200	10 × 30	0.044	0.11	1450	ELXV160E□□122MJ30S	3300	18 × 40	0.017	0.043	3300	ELXV350E□□332MM40S		
	1200	12.5 × 20	0.046	0.12	1360	ELXV160E□□122MK20S	50	18	5 × 11.5	1.1	3.3	165	ELXV500E□□180MEB5D	
	1500	12.5 × 25	0.034	0.085	1700	ELXV160E□□152MK25S		39	6.3 × 11.5	0.56	1.6	255	ELXV500E□□390MFB5D	
	2200	12.5 × 30	0.030	0.075	1980	ELXV160E□□222MK30S		56	6.3 × 15	0.41	1.2	310	ELXV500E□□560MF15D	
	2200	16 × 20	0.038	0.095	1770	ELXV160E□□222ML20S		68	8 × 12	0.29	0.84	415	ELXV500E□□680MH12D	

□ : Lead forming / Taping code

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mA <sub>RMS</sub> /105°C, 100kHz)	Part No.	WV (Vdc)	Cap (μF)	Case size φD×L(mm)	Impedance (Ωmax/100kHz)		Rated ripple current (mA <sub>RMS</sub> /105°C, 100kHz)	Part No.
			20°C	-10°C						20°C	-10°C		
50	82	8 × 15	0.24	0.72	505	ELXV500E□□820MH15D	80	27	6.3 × 15	0.62	1.7	220	ELXV800E□□270MF15D
	82	10 × 12.5	0.16	0.40	530	ELXV500E□□820MJC5S		33	8 × 12	0.53	1.5	275	ELXV800E□□330MH12D
	120	8 × 20	0.18	0.52	610	ELXV500E□□121MH20D		39	10 × 12.5	0.47	1.3	380	ELXV800E□□390MJC5S
	120	10 × 16	0.12	0.30	755	ELXV500E□□121MJ16S		47	8 × 15	0.35	0.97	360	ELXV800E□□470MH15D
	180	10 × 20	0.088	0.22	945	ELXV500E□□181MJ20S		56	8 × 20	0.27	0.74	490	ELXV800E□□560MH20D
	220	10 × 25	0.068	0.17	1150	ELXV500E□□221MJ25S		56	10 × 16	0.33	0.90	500	ELXV800E□□560MJ16S
	330	10 × 30	0.059	0.15	1260	ELXV500E□□331MJ30S		82	10 × 20	0.26	0.70	620	ELXV800E□□820MJ20S
	330	12.5 × 20	0.059	0.15	1190	ELXV500E□□331MK20S		100	10 × 25	0.19	0.52	795	ELXV800E□□101MJ25S
	470	12.5 × 25	0.045	0.11	1500	ELXV500E□□471MK25S		150	10 × 30	0.15	0.41	955	ELXV800E□□151MJ30S
	560	12.5 × 30	0.039	0.098	1720	ELXV500E□□561MK30S		150	12.5 × 20	0.15	0.41	890	ELXV800E□□151MK20S
	680	12.5 × 35	0.033	0.083	1900	ELXV500E□□681MK35S		180	12.5 × 25	0.11	0.30	1040	ELXV800E□□181MK25S
	680	16 × 20	0.043	0.11	1500	ELXV500E□□681ML20S		270	12.5 × 30	0.094	0.26	1270	ELXV800E□□271MK30S
	820	12.5 × 40	0.029	0.073	2120	ELXV500E□□821MK40S		270	16 × 20	0.11	0.30	1240	ELXV800E□□271ML20S
	820	16 × 25	0.033	0.083	1880	ELXV500E□□821ML25S		330	12.5 × 35	0.087	0.24	1450	ELXV800E□□331MK35S
	820	18 × 20	0.039	0.098	1660	ELXV500E□□821MM20S		330	16 × 25	0.081	0.22	1440	ELXV800E□□331ML25S
	1000	16 × 30	0.029	0.073	2150	ELXV500E□□102ML30S		390	12.5 × 40	0.060	0.17	1610	ELXV800E□□391MK40S
	1000	18 × 25	0.030	0.075	2020	ELXV500E□□102MM25S		390	18 × 20	0.085	0.23	1450	ELXV800E□□391MM20S
	1200	16 × 35	0.025	0.063	2320	ELXV500E□□122ML35S		470	16 × 30	0.058	0.16	1790	ELXV800E□□471ML30S
	1500	16 × 40	0.021	0.053	2650	ELXV500E□□152ML40S		470	18 × 25	0.070	0.19	1650	ELXV800E□□471MM25S
	1500	18 × 30	0.026	0.065	2340	ELXV500E□□152MM30S		560	16 × 35	0.052	0.14	2000	ELXV800E□□561ML35S
	1800	18 × 35	0.023	0.058	2620	ELXV500E□□182MM35S		680	16 × 40	0.041	0.11	2200	ELXV800E□□681ML40S
	2200	18 × 40	0.020	0.050	2790	ELXV500E□□222MM40S		680	18 × 30	0.058	0.16	1850	ELXV800E□□681MM30S
63	12	5 × 11.5	1.9	4.8	100	ELXV630E□□120MEB5D	820	18 × 35	0.052	0.14	1990	ELXV800E□□821MM35S	
	27	6.3 × 11.5	1.1	2.8	160	ELXV630E□□270MFB5D	1000	18 × 40	0.041	0.11	2370	ELXV800E□□102MM40S	
	39	6.3 × 15	0.62	1.6	230	ELXV630E□□390MF15D	100	5.6	5 × 11.5	1.9	5.1	100	ELXV101E□□5R6MEB5D
	47	8 × 12	0.49	1.3	275	ELXV630E□□470MH12D		12	6.3 × 11.5	1.1	3.0	150	ELXV101E□□120MFB5D
	56	10 × 12.5	0.27	0.68	420	ELXV630E□□560MJC5S		18	6.3 × 15	0.62	1.7	220	ELXV101E□□180MF15D
	68	8 × 15	0.34	0.85	360	ELXV630E□□680MH15D		22	8 × 12	0.53	1.5	275	ELXV101E□□220MH12D
	68	10 × 16	0.21	0.53	523	ELXV630E□□680MJ16S		27	10 × 12.5	0.47	1.3	380	ELXV101E□□270MJC5S
	82	8 × 20	0.21	0.53	500	ELXV630E□□820MH20D		33	8 × 15	0.35	0.97	360	ELXV101E□□330MH15D
	120	10 × 20	0.16	0.40	650	ELXV630E□□121MJ20S		33	10 × 16	0.33	0.90	500	ELXV101E□□330MJ16S
	150	10 × 25	0.13	0.33	780	ELXV630E□□151MJ25S		39	8 × 20	0.27	0.74	490	ELXV101E□□390MH20D
	180	10 × 30	0.10	0.25	960	ELXV630E□□181MJ30S		56	10 × 20	0.26	0.70	620	ELXV101E□□560MJ20S
	220	12.5 × 20	0.11	0.28	870	ELXV630E□□221MK20S		68	10 × 25	0.19	0.52	795	ELXV101E□□680MJ25S
	270	12.5 × 25	0.074	0.19	1150	ELXV630E□□271MK25S		100	10 × 30	0.15	0.41	955	ELXV101E□□101MJ30S
	390	12.5 × 30	0.068	0.17	1280	ELXV630E□□391MK30S		100	12.5 × 20	0.15	0.41	890	ELXV101E□□101MK20S
	390	16 × 20	0.085	0.22	1100	ELXV630E□□391ML20S		120	12.5 × 25	0.11	0.30	1040	ELXV101E□□121MK25S
	470	12.5 × 35	0.063	0.16	1390	ELXV630E□□471MK35S		180	12.5 × 30	0.094	0.26	1270	ELXV101E□□181MK30S
	470	16 × 25	0.055	0.14	1480	ELXV630E□□471ML25S		180	16 × 20	0.11	0.30	1240	ELXV101E□□181ML20S
	560	12.5 × 40	0.051	0.13	1530	ELXV630E□□561MK40S		220	12.5 × 35	0.087	0.24	1450	ELXV101E□□221MK35S
	560	18 × 20	0.085	0.22	1170	ELXV630E□□561MM20S		220	16 × 25	0.081	0.22	1440	ELXV101E□□221ML25S
	680	16 × 30	0.046	0.12	1720	ELXV630E□□681ML30S		270	12.5 × 40	0.060	0.17	1610	ELXV101E□□271MK40S
	680	18 × 25	0.055	0.14	1520	ELXV630E□□681MM25S		270	18 × 20	0.085	0.23	1450	ELXV101E□□271MM20S
	820	16 × 35	0.040	0.10	1910	ELXV630E□□821ML35S		330	16 × 30	0.058	0.16	1790	ELXV101E□□331ML30S
820	18 × 30	0.046	0.12	1770	ELXV630E□□821MM30S	330		18 × 25	0.070	0.19	1650	ELXV101E□□331MM25S	
1000	16 × 40	0.036	0.09	2070	ELXV630E□□102ML40S	390		16 × 35	0.052	0.14	2000	ELXV101E□□391ML35S	
1000	18 × 35	0.040	0.10	1970	ELXV630E□□102MM35S	390	18 × 30	0.058	0.16	1850	ELXV101E□□391MM30S		
1200	18 × 40	0.036	0.09	2130	ELXV630E□□122MM40S	470	16 × 40	0.041	0.11	2200	ELXV101E□□471ML40S		
80	8.2	5 × 11.5	1.9	5.1	100	ELXV800E□□8R2MEB5D	560	18 × 35	0.052	0.14	1990	ELXV101E□□561MM35S	
	18	6.3 × 11.5	1.1	3.0	150	ELXV800E□□180MFB5D	680	18 × 40	0.041	0.11	2370	ELXV101E□□681MM40S	

□ : Lead forming / Taping code

◆RATED RIPPLE CURRENT MULTIPLIERS

●Frequency Multipliers

Rated voltage (V <sub>dc</sub> )	Case size φD (mm)	Frequency (Hz)				Rated voltage (V <sub>dc</sub> )	Case size φD (mm)	Frequency (Hz)			
		120	1k	10k	100k			120	1k	10k	100k
6.3 & 10	5 to 8	0.65	0.83	0.95	1.00	35 & 50	5 to 8	0.40	0.66	0.85	1.00
	10 & 12.5	0.70	0.85	0.96	1.00		10 & 12.5	0.50	0.73	0.89	1.00
	16 & 18	0.85	0.92	0.97	1.00		16 & 18	0.60	0.81	0.94	1.00
16 & 25	5 to 8	0.55	0.76	0.91	1.00	63 to 100	5 to 8	0.20	0.55	0.80	1.00
	10 & 12.5	0.65	0.83	0.93	1.00		10 & 12.5	0.35	0.65	0.85	1.00
	16 & 18	0.70	0.87	0.96	1.00		16 & 18	0.50	0.75	0.90	1.00