

2021 NO.1

GranVOZ

TWEETER . MIDRANGE. WOOFER. SUBWOOFER

HANGZHOU GRANDIX ELECTRONICS CO., LTD

www.granvozchina.com



THE ART OF MUSIC

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Factory: No.7, Yufeng Rd., Xianlin Industrial zone, Hangzhou, China



Model: TSP-001



Product size	φ37mm
Piezo	13*13mm
Nominal Impedance	4 ohms
RMS/MAX Power	30W/100W
S.P.L. (1W/1M)	98 dB
FREQ,RESP	4k-20kHz

Model: TSP-003E



Product size	φ37*28mm
Piezo	13*13mm double
Nominal Impedance	4 ohms
RMS/MAX Power	30W/100W
S.P.L. (1W/1M)	98 dB
FREQ,RESP	4k-20kHz

Model: TSP-004A



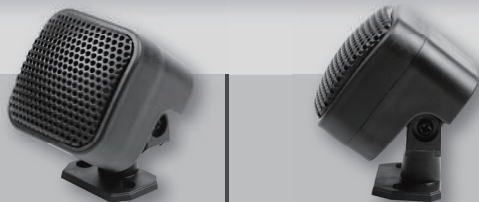
Product size	φ54mm
Piezo	13*13mm double
Nominal Impedance	4 ohms
RMS/MAX Power	30W/100W
S.P.L. (1W/1M)	98 dB
FREQ,RESP	4k-20kHz

Model: TSP-010



Product size	53*70mm
Piezo	13*13mm double
Nominal Impedance	4 ohms
RMS/MAX Power	30W/100W
S.P.L. (1W/1M)	98 dB
FREQ,RESP	5k-20kHz

Model: TSP-014A



Product size	42*42 mm
Piezo	13*13mm
Nominal Impedance	4 ohms
RMS/MAX Power	30W/100W
S.P.L. (1W/1M)	98 dB
FREQ,RESP	5k-20kHz

Model: TSP-203A



Product size	φ41mm
Piezo	13*13mm
Nominal Impedance	4 ohms
RMS/MAX Power	30W/100W
S.P.L. (1W/1M)	98 dB
FREQ,RESP	4k-20kHz

Model: TSP-250G



Product size	φ45*24mm
Piezo	φ13mm
Nominal Impedance	4 ohms
RMS/MAX Power	80w/450w
S.P.L. (1W/1M)	92 dB
FREQ,RESP	2K-30KHz

Model: TS-S251



Product size	φ44*24mm
Piezo	φ21.5mm double
Nominal Impedance	4 ohms
RMS/MAX Power	50w/350w
S.P.L. (1W/1M)	97dB
FREQ,RESP	6000Hz-20KHz

Model: TSP-066



Product size	φ50*28mm
Voice coil	13mm
Cone Material	PET
Magnet	φ35*18*6 mm Y35
Nominal Impedance	4 ohms
RMS/MAX Power	20w/130w
S.P.L. (1W/1M)	89dB
FREQ,RESP	3500Hz-20kHz

Model: TSP-077



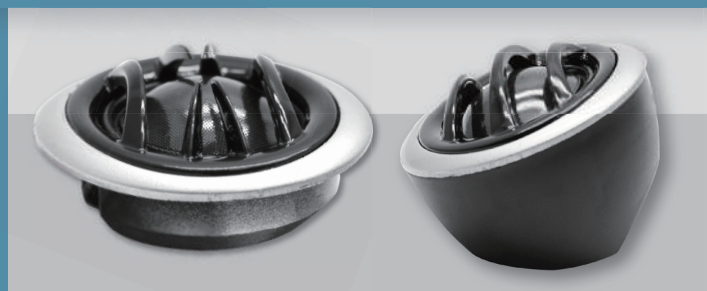
Product size	φ50*28mm
Voice coil	13mm
Cone Material	PET
Magnet	φ35*18*6 mm Y35
Nominal Impedance	4 ohms
RMS/MAX Power	20w/130w
S.P.L. (1W/1M)	89dB
FREQ,RESP	3500Hz-20kHz

Model: TSP-166



Product size	φ54*22mm
Voice coil	25mm
Cone Material	SILK
Neo Magnet	φ24.5*3, M38-ZN
Nominal Impedance	4 ohms
RMS/MAX Power	30w/150w
S.P.L. (1W/1M)	92dB
FREQ,RESP	3500Hz-20kHz

Model: TSP-177



Product size	φ50*22mm
Voice coil	25mm
Cone Material	SILK
Neo Magnet	φ24.5*3, M38-ZN
Nominal Impedance	4 ohms
RMS/MAX Power	30w/150w
S.P.L. (1W/1M)	92dB
FREQ,RESP	3500Hz-20kHz

Model: TSP-210



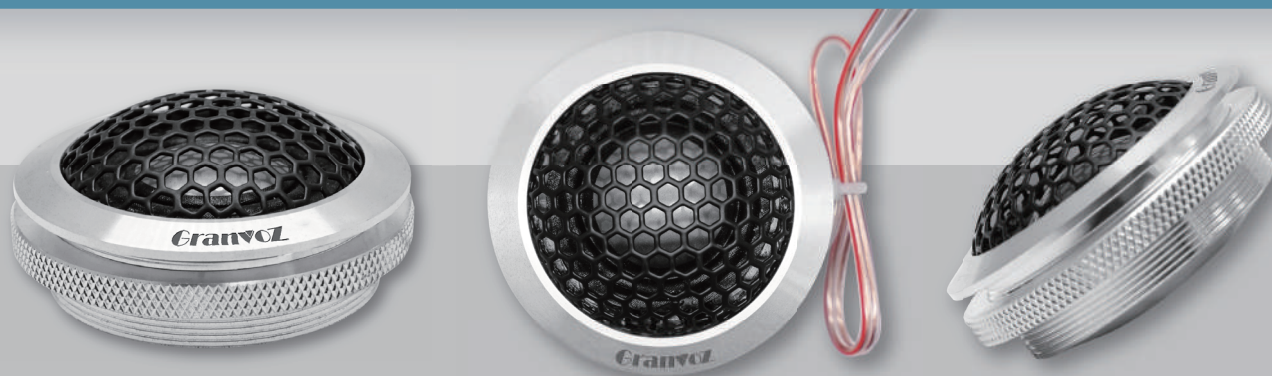
Product size	φ48*50mm
Voice coil	13mm
Cone Material	PET
Magnet	φ35*18*6mm Y35
Nominal Impedance	4 ohms
RMS/MAX Power	50w/100w
S.P.L. (1W/1M)	93dB
FREQ,RESP	6000-22KHz

Model: TS-T120

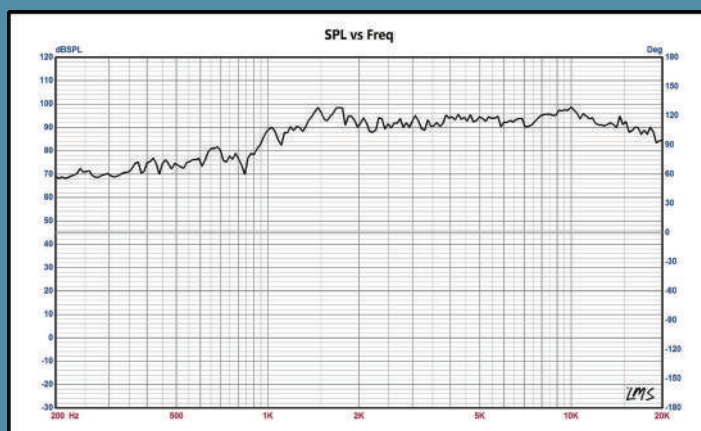


Product size	φ48*50mm
Voice coil	13mm
Cone Material	PET
Magnet	φ35*18*6mm Y35
Nominal Impedance	4 ohms
RMS/MAX Power	50w/100w
S.P.L. (1W/1M)	93dB
FREQ,RESP	6000-22KHz

Model: TS35



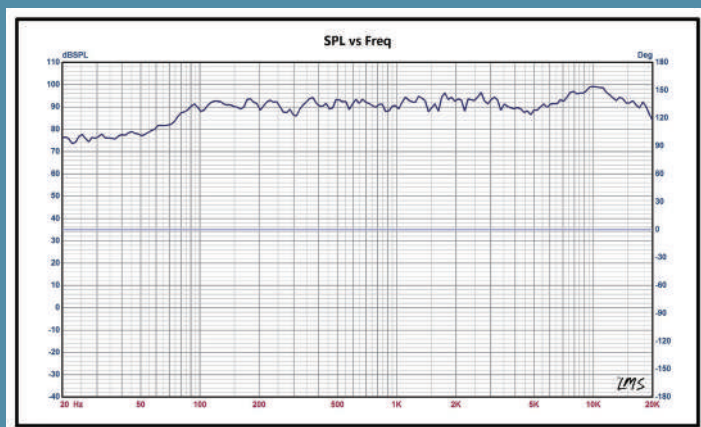
Material	Aluminum
Product size	φ56*30mm
Voice coil	25.4mm KSV
Cone Material	SILK
Magnet	φ24.5*3 M38-ZN
Nominal Impedance	4 ohms
RMS/MAX Power	40w/130w
S.P.L. (1W/1M)	103dB
FREQ,RESP	1K-20kHz



Model: TS45



Material	Aluminum
Product size	φ98*55mm
Voice coil	25.4mm TSV With demodulation copper ring
Cone Material	Carbon fiber cone rubber edge
Magnet	70*32*15, 100Z, Y35
Nominal Impedance	4 ohms
RMS/MAX Power	40w/130w
S.P.L. (1W/1M)	95dB
FREQ,RESP	90Hz-11000HZ



Model: TS-450



Woofer size	4" paper cone with form edge
Woofer Voice coil	1" AVC
Magnet	70*12mm
Tweeter Model	TSP-066
Tweeter Voice coil	13mm
Magnet	φ35*18*6 mm Y35
Nominal Impedance	4 ohms
RMS/MAX Power	35w/120w
S.P.L. (1W/1M)	88 dB
FREQ,RESP	50-20KHz

Model: TSP-550



Woofer size	5" paper cone with form edge
Woofer Voice coil	1" AVC
Magnet	70*15mm
Tweeter Model	TSP-066
Tweeter Voice coil	13mm
Magnet	φ35*18*6 mm Y35
Nominal Impedance	4 ohms
RMS/MAX Power	45w/150w
S.P.L. (1W/1M)	89 dB
FREQ,RESP	50-20KHz

Model: TSP-650

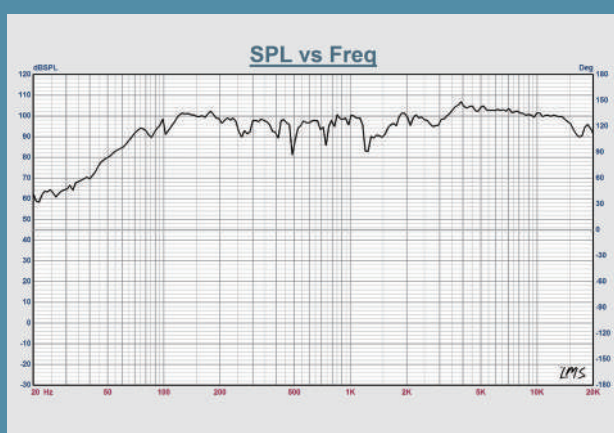


Woofer size	6" paper cone with form edge
Woofer Voice coil	1" AVC
Magnet	80*12mm
Tweeter Model	TSP-066
Tweeter Voice coil	13mm
Magnet	φ35*18*6 mm Y35
Nominal Impedance	4 ohms
RMS/MAX Power	55w/180w
S.P.L. (1W/1M)	90 dB
FREQ,RESP	50-20KHz

Model: MD-65S10-01 / MD-80S13-01 / MD-10S23-01



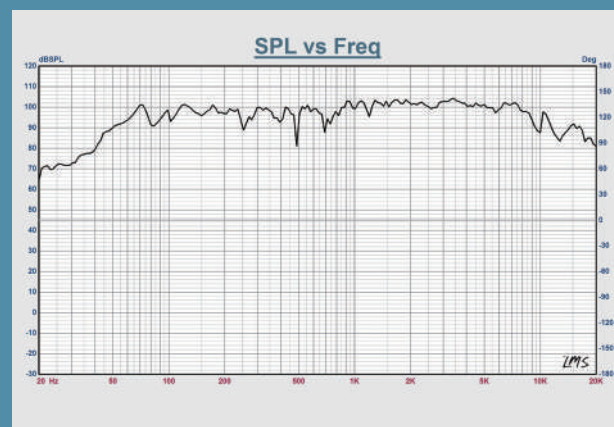
Model	MD-65S10-01	MD-80S13-01	MD-10S23-01
SIZE	6.5 inch	8 inch	10 inch
Cone Material	Paper cone with cloth surround, Aluminum dust cap		
Nominal Impedance	4 ohm	4 ohm	4 ohm
RMS/MAX Power	50W/100W	80W/160W	150W/300W
S.P.L. (1W/1M)	98 dB	98 dB	96 dB
FREQ,RESP	90Hz-11KHz	100Hz-11kHz	90Hz-10KHz
Voice coil	25.9mm(1") KSV	25.9mm(1") KSV	38.6mm(1.5") KSV
Magnet	80*40*15(10 Oz)	90*45*15(13 Oz)	110*60*20(23 Oz)



Model: MD-65S23-02 / MD-80S30-02 / MD-10S30-02



Model	MD-65S23-02	MD-80S30-02	MD-10S30-02
SIZE	6.5 inch	8 inch	10 inch
Cone Material	Non-pressed Paper Cone With Cloth Surround ,aluminum Dust Cap		
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	100W/200W	120W/240W	200W/400W
S.P.L. (1W/1M)	100 dB	102 dB	102 dB
FREQ,RESP	120Hz-11KHz	100Hz-10kHz	100Hz-9500Hz
Voice coil	38.6mm(1.5") KSV	38.6mm(1.5") KSV	50.8mm (2" KSV)
Magnet	110*60*20(23 Oz)	120*60*20(30 Oz)	120*60*20(30 Oz)

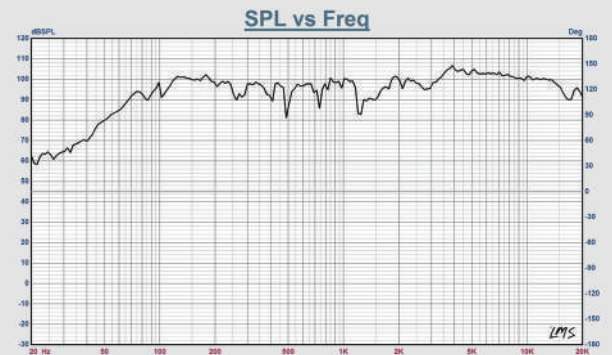


Model: MD-65S17-03/ MD-80S27-03 / MD-10S50-03

Super Slim Basket, Add Copper Demodulation Rings



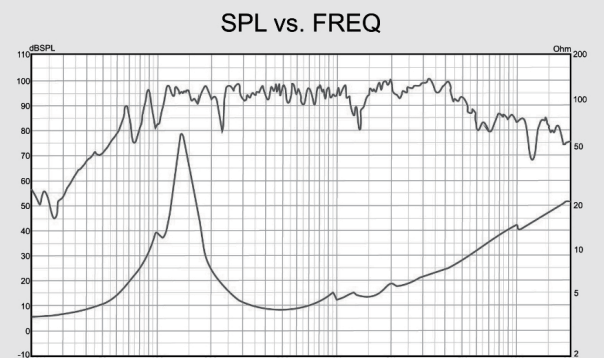
Model	MD-65S17-03	MD-80S27-03	MD-10S50-03
SIZE	6.5 inch	8 inch	10 inch
Cone Material	Paper Cone With Cloth Surround, flat Paper Dust Cap		
Nominal Impedance	4 ohm	4 ohm	4 ohm
RMS/MAX Power	100W/200W	150W/300W	250W/500W
S.P.L. (1W/1M)	98 dB	97 dB	98 dB
FREQ,RESP	110Hz-11KHz	100Hz-11kHz	95Hz-10KHz
Voice coil	38.6 MM (1.5" KSV)	50.8 MM (2" KSV)	60.8 MM (2.4" KSV)
Magnet	100*45*15(17 Oz)Y35	120*60*18(27 oz) Y35	156*70*18(50 oz) Y35
Weight	1.85 kgs	2.5KGS	3.9KGS
Dimension	φ166*63MM	φ210*73MM	φ258*83MM



Model: MD-65S23-04 / MD-80S30-04 / MD-10S30-04



Model	MD-65S23-04	MD-80S30-04	MD-10S30-04
SIZE	6.5 inch	8 inch	10 inch
Cone Material	Non-pressed paper cone with cloth surround		
Nominal Impedance	4/6/8 ohm	4/6/8 ohm	4/6/8 ohm
RMS/MAX Power	100W/200W	120W/240W	200W/400W
S.P.L. (1W/1M)	100 dB	102 dB	102 dB
FREQ,RESP	120Hz-11KHz	100Hz-10kHz	100Hz-9500Hz
Voice coil	1.5" Kapton	1.5" Kapton	2" Kapton
Magnet	110*60*20(23 Oz)	120*60*20(30 Oz)	120*60*20(30 Oz)

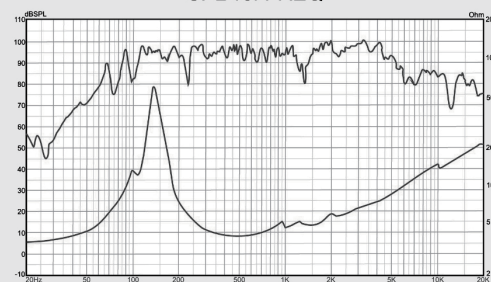


Model: MD-65S23-05/ MD-80S30-05 / MD-10S30-05



Model	MD-65S23-05	MD-80S30-05	MD-10S30-05
SIZE	6.5 inch	8 inch	10 inch
Cone Material	Non-pressed Paper Cone With Cloth Surround, aluminum Bullet		
Nominal Impedance	4/6/8 ohm	4/6/8 ohm	4/6/8 ohm
RMS/MAX Power	100W/200W	120W/240W	200W/400W
S.P.L. (1W/1M)	100 dB	102 dB	102 dB
FREQ,RESP	120-11KHz	100-10kHz	100-9500Hz
Voice coil	1.5" KSV	1.5" KSV	2" KSV
Magnet	110*60*20(23 Oz)	120*60*20(30 oz)	120*60*20(30 oz)

SPL vs. FREQ



Model: MD-65S23-06/ MD-80S30-06 / MD-10S30-06/ MD-69S30-06



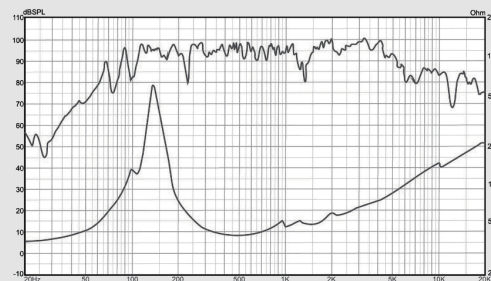
Model	MD-65S23-06	MD-80S30-06	MD-10S30-06	MD-69S30-06
SIZE	6.5 inch	8 inch	10 inch	6x9inch
Material	Non-pressed paper cone with cloth edge.Red steel basket,red Aluminum bullet.			
Nominal Impedance	4 ohm	4 ohm	4 ohm	4 ohm
RMS/MAX Power	100W/200W	150W/300W	200W/400W	275w/550w
S.P.L. (1W/1M)	100 dB	102 dB	102 dB	98dB
FREQ,RESP	200-10KHz	100-10kHz	100-9500Hz	106-17000HZ
Voice coil	38.6MM (1.5" KSV)	38.6MM (1.5" KSV)	50.9mm(2" KSV)	38.6MM (1.5" KSV)
Magnet	110*60*20(23 Oz)	120*60*20(30 oz)	120*60*20(30 oz)	120*60*20 (30oz)

Model: MD-65S20-07/ MD-80S33-07 / MD-10S50-07



Model	MD-65S20-07	MD-80S33-07	MD-10S50-07
SIZE	6.5 inch	8 inch	10 inch
Cone Material	Paper cone with cloth edge.Metal grill included. Add silver bullet ring		
Nominal Impedance	4 ohm	4 ohm	4 ohm
RMS/MAX Power	100W/200W	150W/300W	250W/500W
S.P.L. (1W/1M)	95 dB	94 dB	92 dB
FREQ,RESP	110Hz-11KHz	100Hz-11kHz	90Hz-10KHz
Voice coil	38.6 MM (1.5" KSV)	50.8 MM (2" KSV)	60.8 MM (2.4" KSV)
Magnet	115*60*15(20 Oz)	135*60*17(33.Oz)	156*70*20(50 oz)

SPL vs. FREQ



Model: MD-65S20-08/ MD-80S27-08 / MD-69S30-08

Plastic bullet with colourful painting



Model	MD-65S20-08	MD-80S27-08	MD-69S30-08
SIZE	6.5 inch	8 inch	6x9inch
Cone Material	Paper cone with flat foam surround		Paper cone with cloth surround
Nominal Impedance	4 ohms	4 ohms	4 ohms
RMS/MAX Power	60w/120w	120w/240w	120w/240w
S.P.L. (1W/1M)	98dB	98dB	96dB
FREQ,RESP	90HZ-11kHz	100HZ-11kHz	85HZ-12kHz
Voice coil	25.9 MM(1" KSV)	38.6MM (1.5" KSV)	38.6MM (1.5" KSV)
Magnet	100*50*20(20oz)	115*60*20(27oz)	120*60*20(30oz)

Model: MD-65S10-09/ MD-80S18-09 / MD-10S30-09 / MD-12S40-09

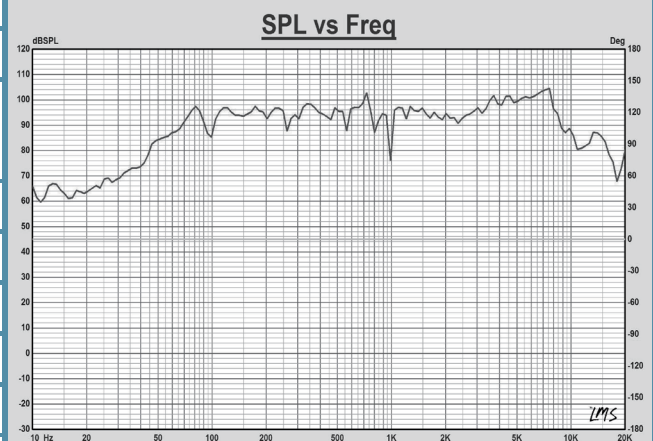


Model	MD-65S10-09	MD-80S18-09	MD-10S30-09	MD-12S40-09
SIZE	6.5 inch	8 inch	10 inch	12 inch
Material	Pressed paper cone with cloth surround .Colourful basket, gasket, plastic bullet with painting			
Nominal Impedance	4 ohms	4 ohms	4 ohms	4 ohms
RMS/MAX Power	80W/160W	80W/160W	150W/300W	200W/400W
S.P.L. (1W/1M)	93 dB	93 dB	93 dB	93 dB
FREQ,RESP	110Hz-11KHz	100Hz-10KHz	95Hz-10KHz	90Hz-9KHz
Voice coil	25.9 MM (1" KSV)	25.9 MM (1" KSV)	38.6 MM (1.5" KSV)	38.6 MM (1.5" KSV)
Magnet	80*40*15(10 Oz)	100*60*20(18 oz)	120*60*20(30 oz)	134*60*20(40 oz)

Model: MD-65A23-01 / MD-80A40-01 / MD-10A55-01



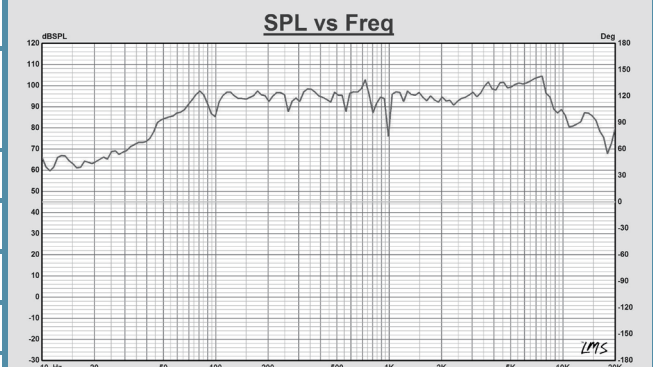
Model	MD-65A23-01	MD-80A40-01	MD-10A55-01
SIZE	6.5 inch	8 inch	10 inch
Material	Non-pressed paper cone with cloth surround. Multiple colour Aluminum basket with Aluminum bullet, add silver bullet ring		
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	100W/200W	120W/240W	200W/400W
S.P.L. (1W/1M)	102 dB	102 dB	102 dB
FREQ,RESP	100-10kHz	100-10kHz	100-9500Hz
Voice coil	1.5" KSV	2" KSV	2.4" KSV
Magnet	110*60*20(23 Oz)	134*60*20(40 oz)	156*60*20(55 oz)



Model: MD-65A23-02 / MD-80A40-02 / MD-10A55-02



Model	MD-65A23-02	MD-80A40-02	MD-10A55-02
SIZE	6.5 inch	8 inch	10 inch
Material	Non-pressed paper cone with cloth surround. Aluminum basket with Aluminum bullet		
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	100W/200W	120W/240W	200W/400W
S.P.L. (1W/1M)	102 dB	102 dB	102 dB
FREQ,RESP	100-10kHz	100-10kHz	100-9500Hz
Voice coil	1.5" KSV	2" KSV	2.4" KSV
Magnet	110*60*20(23 Oz)	134*60*20(40 oz)	156*60*20(55 oz)



Model: MC-65S23-01 / MC-80S30-01



Model	MC-65S23-01	MC-80S30-01
SIZE	6.5 inch	8 inch
Cone Material	Non-pressed paper cone with cloth surround	
Nominal Impedance	4 OHM	4 OHM
RMS/MAX Power	100W/200W	100W/200W
S.P.L. (1W/1M)	93 dB	93 dB
FREQ,RESP	100Hz-20KHz	90Hz-19KHz
Voice coil	1.5" KSV	1.5" KSV
Magnet	110*60*20(23 Oz)	120*60*20(30 Oz)
Tweeter Voice coil	1" KSV	1" KSV
Tweeter magnet	24.5*2 N40	24.5*2 N40

Model: MC-69S30-01



Model	MC-69S30-01
SIZE	6"x9"
Cone Material	Non-pressed paper coen with cloth edge
Nominal Impedance	4 OHM
RMS/MAX Power	150W/300W
S.P.L. (1W/1M)	93 dB
FREQ,RESP	90Hz-19KHz
Voice coil	1.5" KSV
Magnet	120*60*20(30 Oz)
Tweeter Voice coil	1" KSV
Tweeter magnet	24.5*2 N40

Model: MC-80S23-03



Model	MC-80S23-03
SIZE	8 inch
Non-pressed paper cone with cloth edge	
Nominal Impedance	4 OHM
RMS/MAX Power	100W/200W
S.P.L. (1W/1M)	93 dB
FREQ,RESP	90Hz-19KHz
Voice coil	2" KSV
Magnet	110*60*20(23 Oz)
Tweeter Voice coil	1" KSV
Tweeter magnet	24.5*2 N40

Model: MC-80S30-04



Model	MC-80S30-04
SIZE	8 inch
Non-pressed paper cone with cloth edge	
Nominal Impedance	4 OHM
RMS/MAX Power	100W/200W
S.P.L. (1W/1M)	93 dB
FREQ,RESP	90Hz-19KHz
Voice coil	2" KSV
Magnet	120*60*20(30 Oz)
Tweeter Voice coil	1" KSV
Tweeter magnet	24.5*2 N40

Model: MC-65S23-05/ MC-80S30-05



Model	MC-65S23-05	MC-80S30-05
SIZE	6.5 inch	8 inch
Cone Material	Non-pressed paper cone with cloth edge	
Nominal Impedance	4OHMS Re:3.4 ohms	4OHMS Re:3.4 ohms
RMS/MAX Power	150W/300W	200W/400W
S.P.L. (1W/1M)	93 dB	93 dB
FREQ,RESP	85Hz-20KHz	85Hz-20KHz
Voice coil	∅ 38.9MM(1.5" KSV)	∅ 50.8MM (2" KSV)
Magnet	110*60*20(23 Oz)	120*60*20(30 Oz)
Tweeter Voice coil	1" KSV	1" KSV
Tweeter magnet	24.5*2 N38	24.5*2 N38

Model: MC-65A30-01/ MC-80A30-01 / MC-69A30-01

ALUMINUM BASKET



Model	MC-65A30-01	MC-80A30-01	MC-69A30-01
SIZE	6.5inch	8 inch	6x9 inch
Cone Material	Non-pressed paper cone with cloth edge		
Nominal Impedance	4 OHM	4 OHM	4 OHM
RMS/MAX Power	100W/200W	100W/200W	150W/300W
S.P.L. (1W/1M)	95 dB	94 dB	93 dB
FREQ,RESP	75Hz-10KHz	75Hz-10KHz	65Hz-20KHz
Voice coil	1.5" KSV	2" KSV	1.5" KSV
Magnet (mm)	120*60*20(30 Oz)	120*60*20(30 Oz)	120*60*20(30 Oz)
Tweeter Voice coil	1" KSV	1" KSV	1" KSV
Magnet	24.5*2 N40 (0.44OZ)	24.5*2 N40 (0.44OZ)	24.5*2 N40 (0.44OZ)

Model: MC-65A30-02 / MC-69S30-02



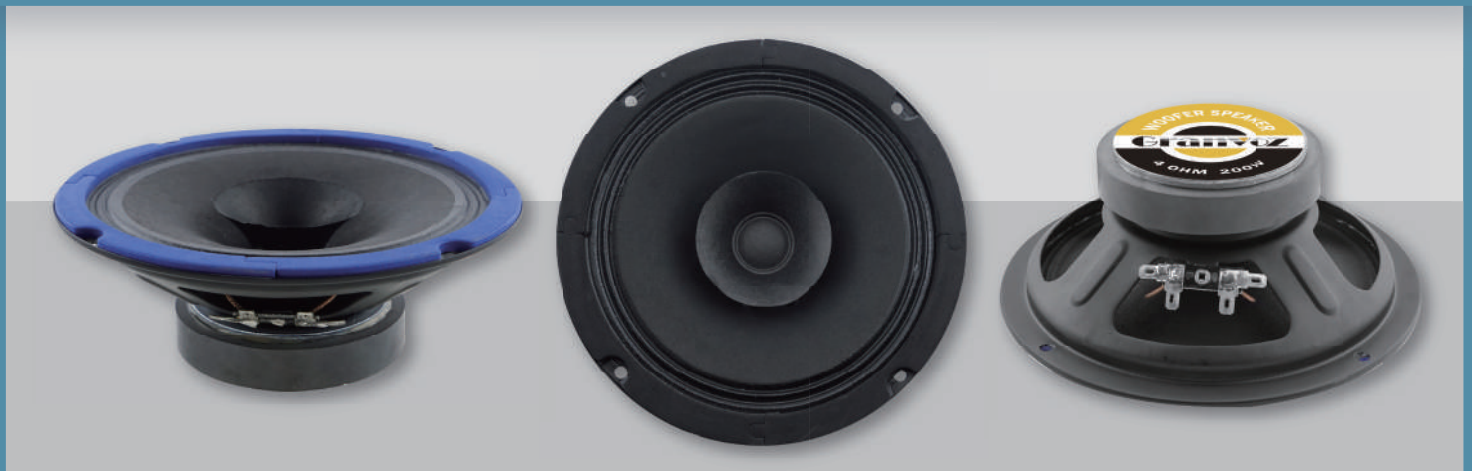
Model	MC-65A30-02	MC-69S30-02
SIZE	6.5 inch	6X9 inch
Cone Material	Non-pressed paper cone ,cloth surround	
Basket Material	Aluminum	Aluminum
Nominal Impedance	4 OHM	4 OHM
RMS/MAX Power	100W/200W	150W/300W
S.P.L. (1W/1M)	95 dB	93 dB
FREQ,RESP	75Hz-10KHz	65Hz-20KHz
Voice coil	1.5" KSV	1.5" KSV
Magnet (mm)	120*60*20(30 Oz)	210*60*20(30 Oz)
Tweeter Voice coil	1" KSV	1" KSV
Magnet	24.5*2 N40 (0.44OZ)	24.5*2 N40 (0.44OZ)

Model: Woofer (PS-1 PS-2 PS-3 PS-4)



Model: Woofer	PS-1	PS-2	PS-3	PS-3
SIZE	8 inch	10 inch	12 inch	15 inch
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	75W/150W	100W/200W	150W/300W	175W/350W
S.P.L. (1W/1M)	90 dB	91 dB	92 dB	95 dB
FREQ,RESP	35Hz-5KHz	35Hz-5KHz	35Hz-5kHz	35Hz-5kHz
Voice coil	1" KSV	1.5" KSV	2" KSV	2.5" KSV
Magnet	100*60*20(20 Oz)	120*60*20(30 oz)	140*65*20(40 oz)	156*70*20(50 oz)

Model: Mid-High (PS-0106-10 PS-0108-22 PS-0106A-10)



Model: Mid-High	PS-0106-10	PS-0108-22	PS-0106A-10
SIZE	6.5 inch	8 inch	6.5 inch
Main Material	Professional paper cone ,cloth edge. With copper demodulation rings		Paper cone
Nominal Impedance	40HMS dc:3.5 ohms	40HMS dc:3.5 ohms	40HMS dc:3.5 ohms
RMS/MAX Power	30W/60W	40W/80W	30W/60W
S.P.L. (1W/1M)	90 dB	92 dB	90 dB
FREQ,RESP	100Hz-10KHz	90Hz-10kHz	100Hz-10KHz
Voice coil	1" KSV	1" KSV	1" KSV
Magnet	80*40*15 (10 OZ)	100*45*20 (22 OZ)	80*40*15 (10 OZ)

Model: PS-0208 / PS-0210 / PS-0212 / PS-0215 / PS-0215



Model	PS-0208	PS-0210	PS-0212	PS-0215	PS-0218
SIZE	8 inch	10 inch	12 inch	15 inch	18 inch
Cone Material	PROFESSIONAL PRESSED PAPER CONE WITH CLOTH EDGE				
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	100W/200W	150W/300W	200W/400W	250W/500W	300W/600W
S.P.L. (1W/1M)	92 dB	93 dB	94 dB	95 dB	95 dB
FREQ,RESP	35Hz-5000Hz	35Hz-5000Hz	35Hz-5000Hz	35Hz-5000Hz	35Hz-5000Hz
Voice coil	1.5" KSV	2" KVC	2" KVC	2.5" KVC	3" KVC
Magnet	120*60*20(30 Oz)	134*60*20 (40 oz)	156*80*20 (50oz)	170*85*20 (60 OZ)	200*90*20 (90 OZ)

Model: PS-0308 / PS-0310 / PS-0312 / PS-0315 / PS-0318



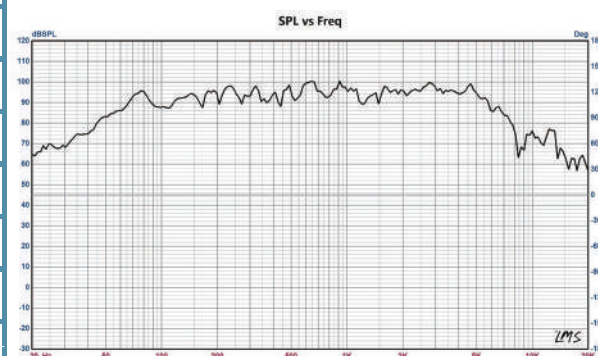
Model	PS-0308	PS-0310	PS-0312	PS-0315	PS-0318
SIZE	8 inch	10 inch	12 inch	15 inch	18 inch
Cone Material	NON-PRESSED PAPER CONE WITH CLOTH EDGE				
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	100W/200W	150W/300W	200W/400W	250W/500W	300W/600W
S.P.L. (1W/1M)	92 dB	93 dB	94 dB	95 dB	95 dB
FREQ,RESP	35Hz-5000Hz	35Hz-5000Hz	35Hz-5000Hz	35Hz-5000Hz	35Hz-5000Hz
Voice coil	1.5" KSV	2" KSV	2" KSV	2.5" KSV	3" KSV
Magnet	115*60*20(30 Oz)	140*70*20 (40 oz)	156*80*20 (50oz)	170*85*20 (60 OZ)	200*90*20 (90 OZ)

Model: PA-8PE21/ PA-8PE22 / PA-8PE23

Aluminum Basket



Model	PA-8PE21	PA-8PE22	PA-8PE23
SIZE	8 inch	8 inch	8 inch
Cone Material	Non-pressed paper cone with cloth edge, paper dust cap	Non-pressed paper cone with cloth edge, Aluminum dust cap	Non-pressed purple colour paper cone with cloth edge, paper dust cap
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	150W/300W	150W/300W	150W/300W
S.P.L. (1W/1M)	95 dB	95 dB	95 dB
FREQ,RESP	80Hz-5000Hz	80Hz-5000Hz	80Hz-5000Hz
Voice coil	2" KVC	2" KVC	2" KVC
Magnet	140*70*20mm (40 OZ)	140*70*20mm (40 OZ)	140*70*20mm (40 OZ)



Model: PA-0310 / PA-0312 / PA-0315 / PA-0318

Aluminum Frame



Model	PA-0310	PA-0312	PA-0315	PA-0318
SIZE	10 inch	12 inch	15 inch	18 inch
Nominal Impedance	8 OHMS(DCR:6.5 OHMS)	8 OHMS(DCR:6.5 OHMS)	8 OHMS(DCR:6.5 OHMS)	8 OHMS(DCR:6.5 OHMS)
RMS/MAX Power	150W/300W	300W/600W	400W/800W	500W/1000W
S.P.L. (1W/1M)	92 dB	93 dB	96 dB	89 dB
FREQ,RESP	50HZ-7000HZ	40Hz-6000Hz	35Hz-4200Hz	35Hz-5000Hz
Voice coil	2" KSV	3" KSV	3" KSV	4" KSV
Magnet	φ156*80*20MM (50 oz)	: φ 180*90*20MM (70OZ)	: φ 190*85*20MM (80OZ)	φ 200*110*25(110 Oz)

Model: PA-0110 / PA-0112 / PA-0115 / PA-0118



Model	PA-0110	PA-0112	PA-0115	PA-0118
SIZE	10 inch	12 inch	15 inch	18 inch
Nominal Impedance	8 OHMS(DCR:6.5 OHMS)	8 OHMS(DCR:6.5 OHMS)	8 OHMS(DCR:6.5 ohms)	8 OHMS(DCR:6.5 ohms)
RMS/MAX Power	400W/800W	500W/1000W	600W/1200W	750W/1500W
S.P.L. (1W/1M)	94 dB	92 dB	90 dB	89 dB
FREQ,RESP	45Hz-7000Hz	40Hz-6000Hz	35Hz-4200Hz	33Hz-4200Hz
Voice coil	3" KSV	4" TSV	4" TSV	4" TSV
Magnet	∅190*80*20MM (80 oz)	∅220*110*20MM (100OZ)	∅220*110*20(100 Oz)	∅220*110*25(130 Oz)

Model: PA-0612T / PA-0615T / PA-0618T



Model	PA-0612T	PA-0615T	PA-0618T
SIZE	12 inch	15 inch	18 inch
Material	Aluminum Basket,Non-pressed paper cone with cloth edge,Winding height:25mm		
Nominal Impedance	4/8 ohm	4/8 ohm	4/8 ohm
RMS/MAX Power	600W/1200W	750W/1500W	900W/1800W
S.P.L. (1W/1M)	96 dB	97 dB	98 dB
FREQ,RESP	35Hz-5000Hz	35Hz-5000Hz	35Hz-5000Hz
Voice coil	4" TSVC	4" TSVC	4" TSVC
Magnet	220*115*25 (125 OZ)	220*115*25 (125 OZ)	220*115*25 (125 OZ)

Model: PA-1215T / PA-1218T



Model	PA-1215T	PA-1218T
SIZE	15 inch	18 inch
Material	Non-pressed paper cone with cloth edge, Winding height:25mm	
Nominal Impedance	8 OHMS,DC: 5 OHMS	8 OHMS,DC: 5 OHMS
RMS/MAX Power	500W/1000W	900W/1800W
S.P.L. (1W/1M)	97 dB	97 dB
FREQ,RESP	42Hz-3500Hz	42Hz-3500Hz
Voice coil	4" TSVC	4" TSVC
Magnet	220*115*25 (125 OZ)	220*115*25 (125 OZ)

Model: SUB-0110 / SUB-0112



Model	SUB-0110	SUB-0112
SIZE	10 inch	12 inch
Cone Material	Non-pressed paper cone with foam edge,paper dust cap	
Nominal Impedance	4 ohm x2	4 ohm x2
RMS/MAX Power	300W/600W	300W/600W
S.P.L. (1W/1M)	84 dB	84 dB
FREQ,RESP	38Hz-1000Hz	38Hz-1000Hz
Voice coil	2" BAVC	2" BAVC
Winding	Winding height 18mm,double damper	
Magnet	130*60*20 mm (37 OZ) Y30	130*60*20 mm (37 OZ) Y30

Model: SUB-0312-110 / SUB-0312-130 / SUB-0312-140 / SUB-0312-170



Model	SUB-0312-110	SUB-0312-130	SUB-0312-140	SUB-0312-170
SIZE	12 inch	12 inch	12 inch	12 inch
Cone Material	Non-pressed paper cone with foam edge		Non-pressed paper cone with foam edge	
Nominal Impedance	4 ohm x2	4 ohm x2	4 ohm x2	4 ohm x2
RMS/MAX Power	400W/800W	500W/1000W	900W/1800W	1000W/2000W
S.P.L. (1W/1M)	87 dB	89 dB	83 dB	82 dB
FREQ,RESP	33Hz-2200Hz	32Hz-2000Hz	30Hz-2000Hz	30Hz-2000Hz
Voice coil	2.4" BAVC	2.4" BAVC	3" BAVC	3" BAVC
Winding	Winding height 25mm, double damper	Winding height 30mm, double damper	Winding height 30mm, double damper	Winding height 35mm, double damper
Magnet	140*70*25 mm*2 (110 OZ)	156*70*25 mm*2 (130 OZ)	170*90*25 mm*2 (140 OZ)	180*85*25 mm*2 (170 OZ)

Model: SUB-0512A / SUB-0515A / SUB-0518A



Model	SUB-0512A	SUB-0515A	SUB-0518A
SIZE	12 inch	15 inch	18 inch
Material	Aluminum basket, Non-pressed paper cone with foam edge, 2 side outlet, with magnet rubber cover, Winding height 50mm, double damper		
Nominal Impedance	2 ohm x2	1 ohm x2	1 ohm x2
RMS/MAX Power	1500W/3000W	1800W/3600W	2500W/5000W
S.P.L. (1W/1M)	85 dB	86 dB	87 dB
FREQ,RESP	30Hz-2000Hz	35Hz-500Hz	32Hz-500Hz
Voice coil	3" BAVC	3" BAVC	4" BAVC
Magnet	220*115*20 mm*3(300 OZ)	220*115*20 mm*3(300 OZ)	253*140*20 mm*3(375 oz)

Model: SUB-0610A / SUB-0612A



Model	SUB-0610A	SUB-0612A
SIZE	10 inch	12 inch
Material	Aluminum basket, Paper cone with fiber glass, foam edge, 2 side outlet	
Nominal Impedance	4 ohm x2	4 ohm x2
RMS/MAX Power	750W/1500W	1800W/3600W
S.P.L. (1W/1M)	85 dB	86 dB
FREQ,RESP	34Hz-3500Hz	34Hz-3500Hz
Voice coil	2.5" BAVC 4 layer	2.5" BAVC 4 layer
Magnet	200*110*20 mm*2(160 OZ)	200*110*20 mm*2(160 OZ)

Model: ZNW-0106 / ZNW-0108 / ZNW-0110

ALUMINUM FRAME



Model	ZNW-0106	ZNW-0108	ZNW-0110
SIZE	6.5 inch	8 inch	10 inch
Cone Material	Non-pressed paper cone with cloth edge. Aluminum bullet		
Nominal Impedance	4 ohm	4 ohm	4 ohm
RMS/MAX Power	100W/200W	150W/300W	250W/500W
S.P.L. (1W/1M)	93 dB	93 dB	91 dB
FREQ.RES.P	110HZ-11KHZ	100HZ-10KHZ	90HZ-9KHZ
Voice coil	1.5" TSV	2" TSV	2.4" TSV
Magnet	ø80*50*8MM N38H	ø100*50*8MM N38H	ø120*85*8MM N38H

Model: ZNW-0206 / ZNW-0208 / ZNW-0210

ALUMINUM FRAME



Model	ZNW-0206	ZNW-0208	ZNW-0210
SIZE	6.5 inch	8 inch	10 inch
Nominal Impedance	4 ohm	4 ohm	4 ohm
RMS/MAX Power	120W/240W	150W/300W	200W/400W
S.P.L. (1W/1M)	100 dB	98 dB	98 dB
FREQ.RES.P	112HZ-12500HZ	100HZ-11000HZ	90HZ-10500HZ
Voice coil	1.5" TSV	2" TSV	2.4" TSV
Magnet	18.5*10 N40 X10 PCS	24.5*10 N40 X10 PCS	24.5*10 N40 X10 PCS