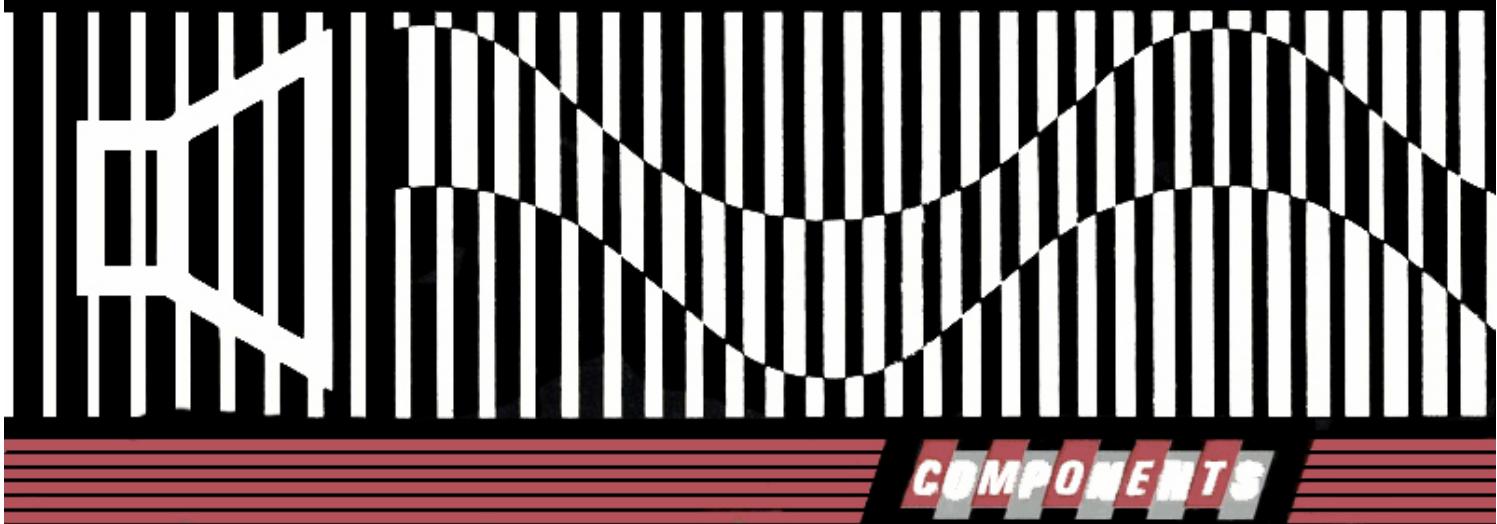


PHILIPS



PHILIPS



**GB PHILIPS DYNAMIC AND COMPREHENSIVE
FREQUENCY RANGE LOUDSPEAKERS**
A sound investment.

The PHILIPS loudspeaker programme is comprehensive both dynamically and in frequency coverage. It employs not only the best of established principles, but also the most advanced concepts of electro-acoustic technologies. Philips are a major user of loudspeakers and systems and, are therefore, well aware of the requirements and demands of other discriminating users. This is especially so in the development of speakers for reproduction of "digital sound" such as with the Compact Disc. Philips loudspeakers are more than just loudspeakers. They are a product of intensive studies into all aspects of sound engineering. From designing through to characteristic analysis and automatic monitoring of quality, employing the most sophisticated computer systems. Data on music power, power handling capacity, operating power and frequency resonance and range, given in this publication, is precise, it can be relied on as definitive when designing single or multi-speaker systems. The speakers included in this publication are tweeters, squawkers, woofers and general purpose types. And are available in conventional dome, cone or membrane construction. Cross-over networks are also available standardised for optimum matching of systems. Although specific speaker/cross-over combinations are suggested here, many other arrangements are possible to suit individual, customized requirements. This overall range of Philips sound engineering components is designed to give the utmost flexibility of choice in involving virtually any form of audio reproduction system and are a true "investment in sound".

**D DAS LAUTSPRECHERPROGRAMM VON PHILIPS.
UMFANGREICH IN DYNAMIK UND
FREQUENZBEREICH.**

Eine investition fur gute ton

Langjährige Erfahrung modernste Erkenntnisse der Elektroakustik ergänzen einander auf das Vorteilhafteste. PHILIPS verwendet selbst Lautsprecher und Tonanlagen aller Art und weiss deshalb um die Anforderungen, die der anspruchsvolle Benutzer stellt. Dies gilt besonders für die Entwicklung von Lautsprechern für die Wiedergabe von "digitalen Signalen" wie z.B. bei Compact Discs. Lautsprecher von PHILIPS sind mehr als nur Lautsprecher - sie sind das Ergebnis intensiver Forschung in allen Bereichen der Klangtechnik, von der Konstruktion über die Analyse der Kennlinien bis zur automatischen Qualitätskontrolle, wobei die modernsten Computersysteme herangezogen werden. Die hier enthaltenen Angaben über Musikleistung, Leistungsaufnahme, Betriebsleistung, Resonanz und Frequenzgang sind genau und zuverlässig und können daher der Auslegung von Lautsprechersystemen als verbindliche Werte zugrundegelegt werden. Das vorliegende Programm enthält Hoch-, Mittel- und Tieföner sowie Universallautsprecher; sie sind als herkömmliche Trichter-, Konus- und Membranlautsprecher lieferbar. Für die optimale Abstimmung der Systeme stehen genormte Frequenzweichen zur Verfügung. Wir empfehlen zwar Kombinationen von Lautsprechern mit Frequenzweichen, doch sind für individuelle Wünsche auch andere Systeme möglich. Das Gesamtprogramm der Klangtechnikbausteine von PHILIPS ist auf grösstmögliche Flexibilität zugeschnitten; es eignet sich für praktische alle Tonwiedergabesysteme.

APPLICATION NOTES

The system music power is the energy in watts applied to an installed speaker giving no distortion or damage. To avoid overloading, the speaker rating should be equal to, or greater than, the maximum power available from the amplifier. The following points are considered important:

In a system a cross over network ensures that each speaker (tweeter, squawker and woofer), receives an amount of power that is within its capacity. This applies especially to the high frequency speakers as only a relatively small part of the total amplified music is in the higher registers. In consequence only a few watts are delivered to the tweeters. The given system music power applies only when the speaker is built into a box. In free-air this power handling is greatly reduced. This is especially important for woofers, as the greatest part of music power occurs in the lower registers. Music power is 1.5 times that of sine wave power. For example, an amplifier that delivers sine wave power of 20 W is equivalent to 30 W music power. Therefore, a speaker/system should have a total music power of 30 W.

ZUR ANWENDUNG

Die Musikleistung des Systems ist die in Watt ausgedrückte Energie, die an einen angeschlossenen Lautsprecher verzerrungs- und störungsfrei angelegt wird. Die Nennleistung des Lautsprechers sollte zumindest der Maximalleistung des Verstärkers entsprechen, damit es zu keiner Überbelastung kommen kann.

Wichtig:
In der Anlage sorgt die Frequenzweiche dafür, dass jeder Lautsprecher (Hoch-, Mittel- und Tieföner) die seiner Kapazität entsprechende Leistung erhält. Das gilt vor allem für Hochfrequenzlautsprecher, da nur ein verhältnismässig geringer Teil der gesamten verstärkten Musik im hohen Frequenzbereich liegt. Daher werden dem Hochtöner nur wenige Watt an Leistung zugeführt. Die angegebene Musikleistung trifft nur für Lautsprecher zu, die in einer Box eingebaut sind. Bei freiliegenden Lautsprechern ist die Leistungsaufnahme stark reduziert. Das ist bei Tiefönen besonders wichtig, da der Grossteil der Musikleistung in den niederen Frequenzbereichen erbracht wird.

Die Musikleistung ist eineinhalbmal so gross wie die Sinusleistung, wie das folgende Beispiel zeigt: Ein Verstärker mit einer Sinusleistung von 20 W bringt 30 W Musikleistung. Deshalb muss das Lautsprechersystem über eine Gesamtleistungsaufnahme von 30 W verfügen.

F LA GAMME DE HAUT-PARLEURS PHILIPS DYNAMIQUE ET LARGE BANDE: un bon investissement dans le son.

La gamme de haut-parleurs PHILIPS est complète d'un point de vue dynamique parce que recouvrant une large bande de fréquence. Elle emploie non seulement les meilleurs principes établis, mais aussi les concepts les plus avancés en technologie électroacoustique.

PHILIPS est parmi les principaux utilisateurs de haut-parleurs et systèmes, et est en conséquence bien conscient des nécessités et attentes d'autres utilisateurs avertis. C'est particulièrement vrai dans le développement de haut-parleurs pour la reproduction du son digital comme celui des disques compacts.

Les haut-parleurs PHILIPS sont plus que de simples haut-parleurs. Ils sont le produit de recherche intensive dans tous les domaines de l'ingénierie du son. De la conception à l'analyse des caractéristiques et au contrôle automatique de la qualité, PHILIPS emploie les systèmes informatiques les plus sophistiqués.

Les informations données par cette publication sur la puissance musicale, la puissance nominale, la puissance de fonctionnement, la fréquence de résonance et la bande sont précises, fiables et peuvent être exploitées lors de la conception de systèmes de haut-parleurs à une ou plusieurs voies.

Les haut-parleurs sélectionnés dans ce catalogue sont HP pour aigus (tweeters), HP pour médiums (squawkers), HP pour basses (woofers), et types standard, et sont disponibles en réalisation conventionnelle pour les modèles à dômes, à cône ou à membrane.

Les filtres sont également disponibles, standardisés afin de s'adapter au plus grand nombre de systèmes. Bien que des combinaisons spécifiques filtres/haut-parleurs soient suggérées ici, bien d'autres solutions sont possibles pour répondre aux besoins individuels.

Cette gamme complète de produits de l'ingénierie du son PHILIPS est conçue pour proposer la plus grande flexibilité de choix et pour s'adapter à pratiquement chaque système de reproduction audio. C'est un réel investissement dans le son.

APPLICATION

Le système de puissance nominale est l'énergie en watts appliquée à un haut-parleur installé ne produisant ni distorsion ni dommage. Pour éviter les surcharges, la puissance du haut-parleur doit être égale ou supérieure à la puissance maximum pouvant être fournie par l'amplificateur.

Les points suivants sont considérés comme importants:

Dans un système, le filtre fait en sorte que chaque haut-parleur (tweeter, médium ou squawker) reçoive une partie de la puissance en rapport avec sa capacité. Ceci est vrai particulièrement pour les haut-parleurs haute fréquence car seule une petite partie de la musique amplifiée est dans le registre aigu. En conséquence, seuls peu de watts sont transmis au "tweeter".

On considère la puissance musicale globale d'un système donné lorsque celui-ci fonctionne en enceinte close.

A l'air libre, cette puissance nominale est grandement réduite. Ceci est particulièrement important pour les "woofers" puisqu'une grande part de la puissance musicale se situe dans le registre grave.

La puissance musicale est égale à 1,5 fois celle de la puissance sinusoïdale. Par exemple, un amplificateur qui délivre un signal sinusoïdal de 20 watts équivaut à 30 watts de puissance musicale. En conséquence, un système de haut-parleurs devra avoir une capacité nominale totale de 30 watts.

NL PHILIPS DYNAMISCHEN TOON-AANGEVEND LUIDSPREKERPROGRAMMA Een geluidsinvestering.

Het Philips luidsprekerprogramma is veelomvattend: zowel dynamisch als ook in het frequentiebereik. Het biedt niet alleen het beste van de huidige systemen, maar ook de nieuwste technologieën op het gebied van de elektro-akoestiek.

Philips zelf is een grootverbruiker van luidsprekers en luidsprekersystemen, en is zich juist daarom zeer bewust van de behoefte en eisen van andere kritische gebruikers. Dit is speciaal het geval bij de ontwikkeling van luidsprekers voor de weergave van "digitaal geluid" zoals dit het geval is bij de Compact Disc. Philips luidsprekers zijn meer dan gewone luidsprekers. Het zijn producten van intensieve studies in alle aspecten van de geluidontwikkelingen. Van vormgeving tot karakteristieke analyse en het in beeldbrengen van de kwaliteit, gebruikmakend van hiervoor ontwikkelde computer systemen.

Gegevens betreffende muziekvermogen, belastbaarheid, bedrijfsvermogen, resonantie frequentie en het frequentie bereik worden in de publicatie aangegeven.

Luidsprekersystemen kunnen nu nauwkeurig worden geselecteerd. De hier gepubliceerde luidsprekers zijn tweeters (hoge tonen), squawkers (midden tonen), woofers (lage tonen) en full ranges (universel toepasbare typen). En zijn beschikbaar in conventionele dome, conus of membrane uitvoering.

Luidsprekerscheidingsfilters, eveneens beschikbaar, zijn afgestemd voor een optimale weergave van de luidsprekersystemen. Naast de in deze publicatie voorgestelde combinaties zijn andere combinaties mogelijk voor persoonlijke behoeftes cq. wensen. Deze Philips geluidsproducerende componenten zijn over de

gehele lijn dusdanig uitgevoerd dat er eenvoudig een luidspreker keuze gemaakt kan worden voor vrijwel elk audio weergavesysteem en is als zodanig een ware "investering in geluid".

OPMERKINGEN VOOR GEBRUIK

Het muziekvermogen van de luidsprekerbox is de energie uitgedrukt in Watts, die een "ingegebouwde"-luidspreker zonder vervorming of beschadiging kan weergeven. Om overbelasting te voorkomen moet de toelaatbare belasting van de luidspreker gelijk of groter zijn dan het maximale vermogen dat een versterker kan leveren. De volgende punten zijn hierbij van belang: In een luidspreker systeem zorgt het scheidingsfilter ervoor dat elke luidspreker (tweeter, squawker en woofer), een hoeveelheid vermogen toegevoerd krijgt dat binnen de capaciteit van deze luidspreker ligt. Dit is vooral van belang bij hoge tonen-luidsprekers, daar slecht een relatief klein gedeelte van het totale vermogen door de hogere frequenties wordt opgenomen. Dit betekent dat gemiddeld slechts enige Watts aan de tweeters wordt geleverd.

Het opgegeven luidspreker muziekvermogen geldt allen indien de luidspreker is ingebouwd in een box. Het toelaatbare vermogen is in de open lucht beperkt. Dit is met name van belang bij woofers, daar het grootste deel van het vermogen door de lagere frequenties wordt opgenomen.

Muziekvermogen is 1,5 maal het sinusvermogen. Bijvoorbeeld: een versterker levert 20 W sinusvermogen, dit is equivalent aan 30 W muziekvermogen. De luidspreker of luidsprekercombinatie moet minimaal 30 W muziekvermogen kunnen verwerken.

I ALTOPARLANTI PHILIPS

LA FEDELTA' ASSOLUTA E L'ELEGANZA DEL DESIGN.

WOOFERS, TWEETERS e SQUAWKERS PHILIPS: una gamma completa di altoparlanti di qualità superiore, sicura ed affidabile perché frutto della grande esperienza Philips nel campo del HI-FI.

Fedele alla sua immagine di costruttore di altoparlanti fra i più importanti, la Philips è impegnata in un costante programma di ricerca e di sviluppo sempre più compiuterizzato e sofisticato. Un impegno confortato dall'assoluto livello tecnologico raggiunto. Infatti la gamma Philips può soddisfare qualunque richiesta ed è adatta alle apparecchiature ed alle condizioni acustiche le più disparate, potendo ricoprire una banda di frequenza molto ampia.

TWEETERS

Dal'elegante design, compatti e leggeri i Tweeters Philips sono una garanzia di assoluta fedeltà alle alte frequenze sia nei modelli "DOME" che in quelli a "CONO".

Nell'era del suono digitale la Philips ha messo a punto alcuni modelli che meritano un cenno particolare: i Piezzo Elettrici a Tromba, i Ribbon-Tweeter a nastro e i Dome-Tweeter al ferro fluido.

Tutto ciò per raggiungere una capacità di gestione della potenza musicale decisamente maggiore con una migliore risposta in frequenza.

WOOFERS

I Woofers Philips, ormai sinonimo di potenza e robustezza, garantiscono un elevatissimo livello di fedeltà.

Grazie anche alla superiorità del concetto a "Membrana Piatta" la risposta dei toni bassi può raggiungere senza sforzo i 48-50 Hz.

P A GAMA DE ALTIFALANTES PHILIPS É DINÂMICA E VERSÁTIL Um investimento de som.

O programa de altifalantes PHILIPS cobre por completo todas as necessidades dinâmicas e de frequência. Utiliza não só os melhores produtos, mas também conceitos altamente sofisticados no campo da electro-acústica.

A PHILIPS é o maior consumidor de altifalantes e sistemas, como tal, está atenta às necessidades dos outros utilizadores, particularmente no desenvolvimento de altifalantes para reprodução do "som digital", fornecido pelo "COMPACT DISC". Os altifalantes da PHILIPS são mais do que simples altifalantes. São o resultado de estudos intensivos sobre todos os aspectos da reprodução sonora. Desde o projecto até à análise das suas características, todo o processo de fabricação é controlado automaticamente através de um sofisticado sistema computadorizado.

Todos os elementos sobre potência musical, capacidade de volume sonoro, potência real, frequência de ressonância e gama de frequências, fornecidos nesta publicação, são exactos e podem ser utilizados como elementos base para o estudo de sistemas simples ou combinados.

Os TWEETERS, SQUAWKERS, WOOFERS e outros modelos de altifalantes, de utilização geral, cobrem todas as necessidades sobre a reprodução de agudos, médias e graves frequências. A sua construção é feita nas formas convencionais de cúpula, cone ou membrana.

As redes de filtro de frequência estão estandardizadas de forma a realizarem uma óptima conjugação com os sistemas, estando disponíveis para todas as utilizações.

Além das sugestões apresentadas, relativamente a

Per potenza, caratteristiche e dimensioni (ampiamente riportate in questo catalogo) la Philips può offrire una gamma di Woofers di assoluto prestigio.

SQUAWKERS

In linea con i Woofers ed i Tweeters, gli Squawkers completano la ricca gamma degli altoparlanti Philips. Gli Squawkers a Membrana ultrapiatta riproducono i toni medi con la massima fedeltà.

Per una consultazione rapida ed accurata, ogni modello è corredata da esaurienti specifiche tecniche.

NOTA IMPORTANTE DI CARATTERE GENERALE

Gli altoparlanti Philips non sono soggetti a distorsioni o rotture. Per evitare inutili sovraccarichi e per meglio distribuire la potenza musicale di un sistema è necessario l'utilizzo dei filtri.

I filtri, infatti, hanno il compito di miscelare nelle giuste proporzioni la potenza musicale su tutti gli altoparlanti in rapporto alle capacità di ciascuno.

Una equa distribuzione è particolarmente rilevante nei Tweeters che operano alle alte frequenze.

La potenza musicale viene quantificata solo per altoparlanti inseriti in casse acustiche, con relativa determinazione del "litraggio".

Ad aria libera la medesima potenza si riduce notevolmente. Questo è fondamentale per i Woofers che esprimono gran parte della loro potenza nei toni grevi (basse frequenze).

La potenza musicale è uguale a 1,5 volte quella della potenza sinusoidale.

Per esempio un amplificatore che fornisce una potenza sinusoidale di 20 Watts è equivalente ad una potenza musicale di 30 Watts.

Pertanto un sistema di altoparlanti dovrà avere una capacità nominale totale di almeno 30 Watts.

altifalantes em conjunto com filtros de frequência, muitas outras combinações são possíveis, segundo as exigências específicas do utilizador.

A gama geral de componentes para reprodução de som, de que a PHILIPS dispõe, está preparada para oferecer a máxima flexibilidade na escolha de todos os componentes, que constituem uma perfeita cadeia de reprodução sonora, envolvendo praticamente todos os sistemas utilizados, ou seja, um verdadeiro "Investimento em Som".

CONCEITOS DE APLICAÇÃO

A potência musical de um sistema é a máxima energia em WATTS aplicável num altifalante instalado, sem que dai resulte distorsão ou danos para o altifalante. Para evitar sobrecargas, a potência máxima do altifalante deve ser igual ou superior à máxima potência disponível no amplificador.

Consideram-se importantes os seguintes pontos:

Num sistema, o circuito separador de gamas de frequência, assegura que cada altifalante (TWEETER, SQUAWKER e WOOFER) receba uma potência que esteja de acordo com a sua capacidade.

Isto aplica-se, especialmente, aos altifalantes de alta frequência, dado que só uma pequena parte da potência amplificada se situa nas altas frequências. Em consequência disso, só alguns WATTS são enviados para os TWEETERS.

A potência musical é 1,5 vezes superior ao sinal sinusoidal de potência. Por exemplo, um amplificador que debite um sinal sinusoidal de 20 W é equivalente a 30 W de potência musical. Em consequência disso o sistema de altifalantes deve ter capacidade para suportar um mínimo de 30 W.

E ALTAVOCES PHILIPS

Amplia y dinámica gama de frecuencias. Un cambio en el concepto del sonido

La gama de altavoces PHILIPS es amplia, dinámica y cubre una extensa banda de frecuencias. Utiliza, además de los mejores productos, los conceptos más avanzados en tecnología electroacústica.

PHILIPS, conocedor de los altavoces y sistemas utilizados por sus clientes, es consciente de los requerimientos y demandas de otros usuarios, especialmente en el desarrollo de la reproducción del sonido digital ,compact-disc.

Los altavoces PHILIPS son más que simples altavoces. Son productos cuidadosamente analizados en todos sus aspectos, a través de sus características de diseño y control automático de calidad, empleando para ello los más sofisticados sistemas informáticos.

En esta información, encontrará datos relativos a potencia musical, potencia nominal, potencia operacional, frecuencia de resonancia y gama de altavoces.

Los altavoces incluidos en esta publicación son: TWEETERS (agudos), SQUAWKERS (medios), WOOFERS (graves) y tipos standard, indicando, para cada uno de ellos, datos relativos a cúpula, membrana, construcción.

Los filtros están también disponibles, estandarizados, con el fin de poderles adaptar al mayor número de sistemas. Además de las combinaciones específicas, filtros, altavoces sugeridos en este catálogo, existen otras muchas posibilidades de satisfacer las necesidades que se requieren.

Esta completa gama de PHILIPS, puede ser considerada una verdadera "investigación de sonido", pues permite al usuario elegir su altavoz según el sistema de reproducción de audio.

NOTAS IMPORTANTES

El sistema de potencia nominal es la energía en watos aplicada al altavoz para no producir daños ni distorsiones. Para evitar las sobrecargas, la potencia del altavoz debe ser igual o superior que la máxima potencia proporcionada por el amplificador.

En un sistema, el filtro instalado asegura que cada altavoz reciba una potencia acorde con su capacidad. Esto tiene una aplicación especial en los altavoces del alta frecuencia, donde sólo una pequeña parte de la música amplificada, se encuentra en los registros altos por lo tanto, sólo una pequeña potencia pasa a los tweeters (agudos).

El concepto de potencia musical se aplica cuando el altavoz está contenido dentro de una caja acústica.

Al aire libre, esta potencia se reduce enormemente. Esto es particularmente importante para los woofers (graves). La potencia musical es 1,5 veces la potencia de la onda sinusoidal. Por ejemplo, un amplificador que libera una señal sinusoidal de 20 watois, equivale a 30 watos de potencia musical, por lo que el sistema de altavoces deberá tener una capacidad total de 30 watos.

S

PHILIPS HÖGTALARE, OMFATTANDE I DYNAMIK OCH FREKVENSOMFÄNG - EN LJUDINVESTERING.

Högtalarprogrammet från PHILIPS är omfattande, både dynamiskt och i frekvenshänseende. Man använder inte bara välkända principer, utan också de mest avancerade begreppen inom elektroakustik teknologi.

PHILIPS använder stora mängder av högtalare och system och man är därför väl medveten om behov och krav från insiktsfulla kunder. Detta speciellt i utvecklingen av högtalare för återgivning av "digitalt ljud", som från compact disc. PHILIPS högtalare är mer än bara högtalare. Det är ett resultat av fördjupade studier rörande ljudteknik. Man använder mycket sofistikerade datasystem för utformning av korgar, analyser av egenskaper och automatisk övervakning av kvalité. Data för musikeffekt, märkeffekt, driveffekt, resonansfrekvens och frekvensomfång som anges här är noggranna, att lita på när man beräknar högtalare eller högtalarsystem. Högtalare i denna publikation är diskant-, mellanregister-, bas- och standard- högtalare och finns i vanliga dome, kon eller membrankonstruktioner.

Delningsfilter finns även, standardiserade för optimal passning till systemen. Även om specifika högtalare/filterkombinationer föreslås här, är andra kombinationer möjliga för att passa individuella behov. Denna serie av PHILIPS ljudkomponenter är konstruerade att ge stora urvalsmöjligheter för praktiskt taget alla slag av audiosystem och är en sann "investering i ljud".

ANVISNINGAR

Systemens musikeffekt är den energi i watt som en inmonterad högtalare tål utan att ge distortion eller skada. För att undvika överbelastning skall högtalarens märkdata vara lika med eller större än maximumeffekten från förstärkaren.

Detta är viktigt:

I ett system skyddar delningsfiltret så att varje högtalare (diskant, mellanregister, och bas) får den effekt den tål. Det gäller speciellt diskanthögtalare, eftersom endast en relativt liten del av den totala förstärkta musiken finns i det höge registret. Förlaktligen fördelar bara några få watt till diskanthögtalaren.

Angivna musikeffekt i systemen gäller endast då högtalaren är inbyggd i låda. I fria luften är effektligheten högst reducerad. Speciellt viktigt för bashögtalare eftersom största delen av musikeffekten finns i det lägre registret.

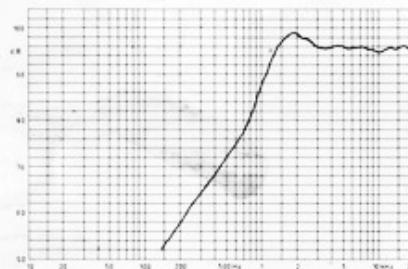
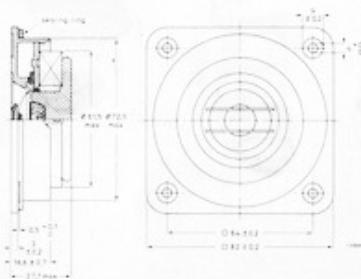
Musikeffekten är 1,5 gånger sinuseffekten. En förstärkare som ger t.ex. sinuseffekten 20 W motsvarar 30 W musikeffekt. I detta fall bör ett högtalarsystem ha en total musikeffekt på 30 W.

Loudspeakers-Tweeters
Hochton-Lautsprecher
Haut-Parleurs Augus

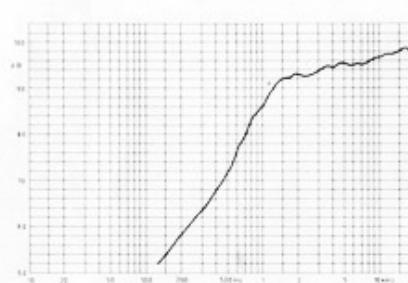
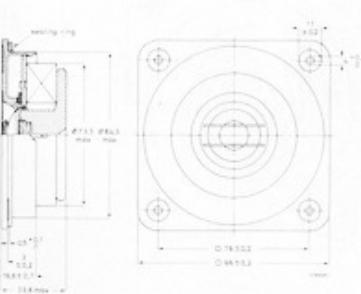
Luidsprekers-Tweeters
Altoparlanti-Tweeters
Korkeääni-kaiuttimet

Altifalantes-Tweeters
Altavoces-Tweeters
Högtalare-Diskant

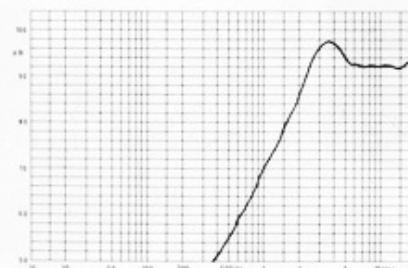
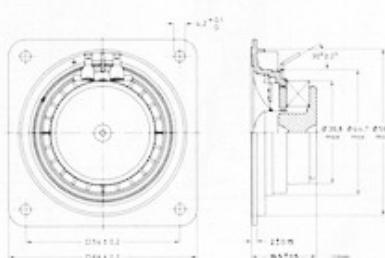
Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 11400/T4	240 70118	60 Watt	4 Watt	1200 Hz	2.5 - 20 kHz	73 mm
AD 11400/T8	240 70119	60 Watt	4 Watt	1200 Hz	2.5 - 20 kHz	73 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 11600/T4	240 70123	60 Watt	4 Watt	1200 Hz	2.5 - 20 kHz	85 mm
AD 11600/T8	240 70124	60 Watt	4 Watt	1200 Hz	2.5 - 20 kHz	85 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 22360/T4	240 70115	60 Watt	3 Watt	2200 Hz	3 - 20 kHz	59 mm
AD 22360/T8	240 70191	60 Watt	3 Watt	2200 Hz	3 - 20 kHz	59 mm



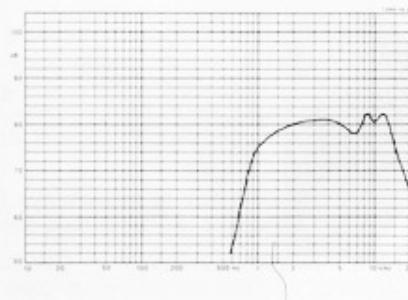
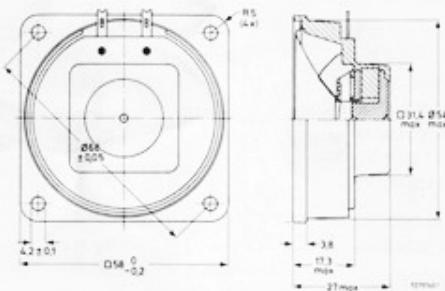
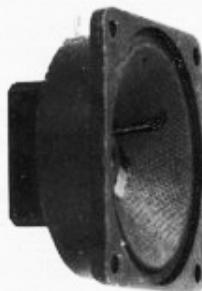
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Loudspeakers-Tweeters
Hochton-Lautsprecher
Haut-Parleurs Augus

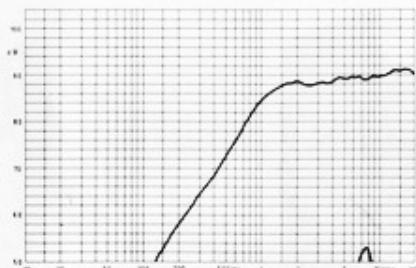
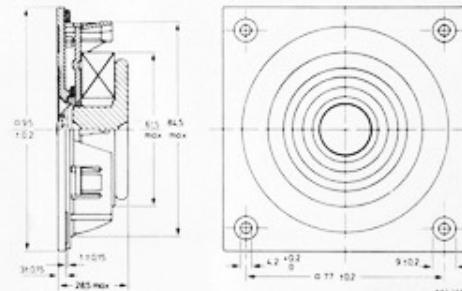
Luidsprekers-Tweeters
Altoparlanti-Tweeters
Korkeääni-kaiuttimet

Altifalantes-Tweeters
Altavoces-Tweeters
Högtalare-Diskant

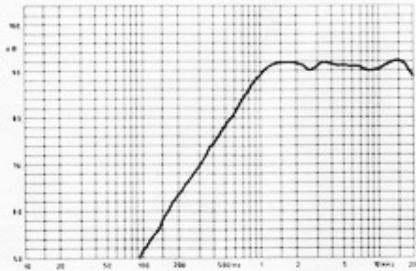
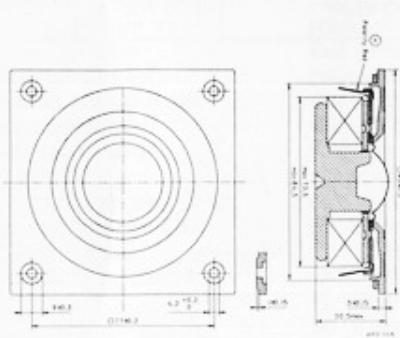
Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 2273/T4	240 30144	17 Watt	10 Watt	1000 Hz	1.5 - 15 kHz	52 mm
AD 2273/T8	240 30143	17 Watt	10 Watt	1000 Hz	1.5 - 15 kHz	52 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
00 00401/T8	240 70193	60 Watt	4 Watt	950 Hz	2 - 20 kHz	85 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
00 11601/T8	240 70192	110 Watt	6 Watt	950 Hz	1 - 20 kHz	85 mm



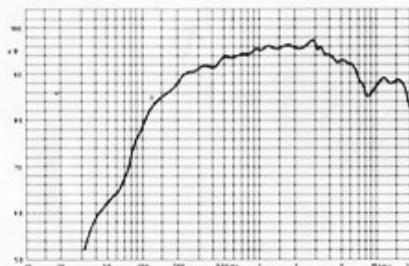
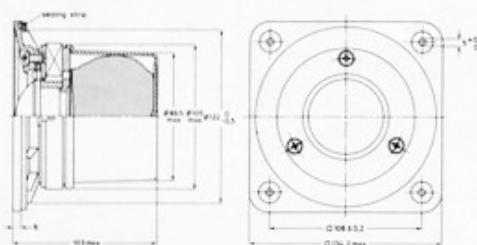
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Loudspeakers-Squawkers
Mittelton-Lautsprecher
Haut-Parleurs Medium

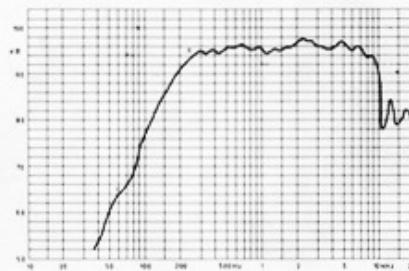
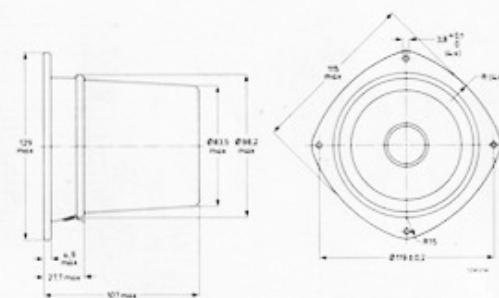
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Altoparlanti-Squawkers
Keskialueen kaiuttimet

Altifalantes-Squawkers
Altovoces-Squawkers
Högtalare-mellanregister

Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 02110/SQ4	240 50199	160 Watt	30 Watt	340 Hz	0.75 - 5 kHz	106 mm
AD 02110/SQ8	240 50155	160 Watt	30 Watt	340 Hz	0.75 - 5 kHz	106 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 50600/SQ4	240 50212	100 Watt	20 Watt	260 Hz	0.4 - 5 kHz	99 mm
AD 50600/SQ8	240 50213	100 Watt	20 Watt	260 Hz	0.4 - 5 kHz	99 mm



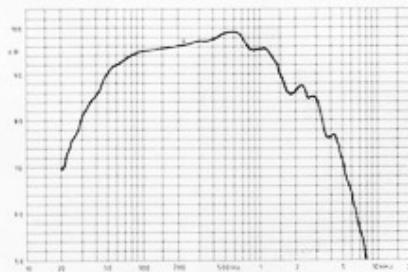
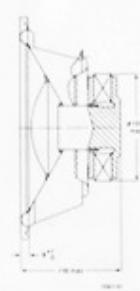
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Loudspeakers-Woofers
Bass-Lautsprecher
Haut-Parleurs basses

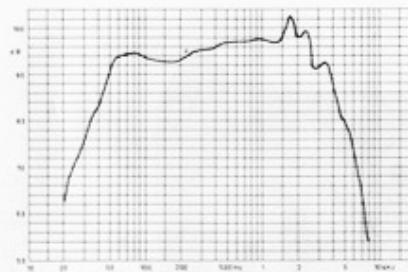
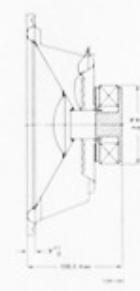
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Altoparlanti-Woofers
Bassokaiuttimet

Altifalantes-Woofers
Altavoces-Woofers
Högtalara-Bas

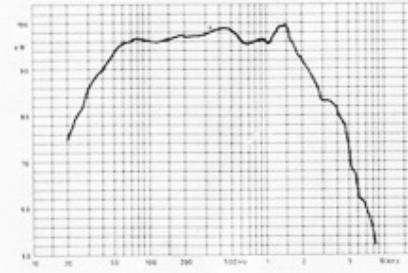
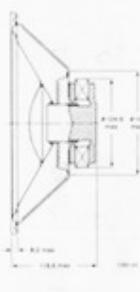
Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 10202/W8	240 60188	180 Watt	80 Watt	26 Hz	- 1 kHz	227 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 10672/W8	240 60169	140 Watt	60 Watt	27 Hz	- 1.5 kHz	227 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 12202/W8	240 60168	180 Watt	80 Watt	24 Hz	- 1.5 kHz	279 mm



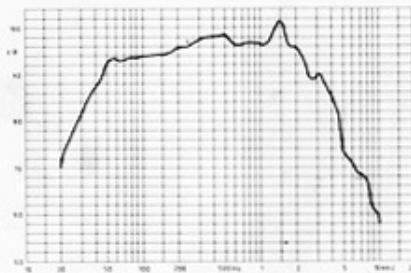
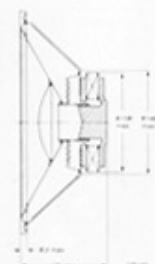
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Loudspeakers-Woofers
Bass-Lautsprecher
Haut-Parleurs basses

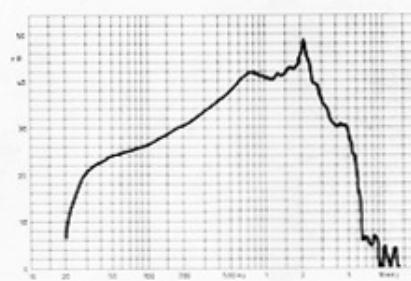
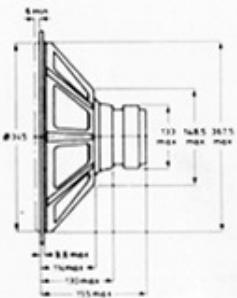
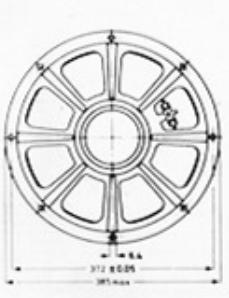
Luidsprekers-Woofers
Altoparlanti-Woofers
Bassokaiuttimet

Altifalantes-Woofers
Altavoces-Woofers
Högtalara-Bas

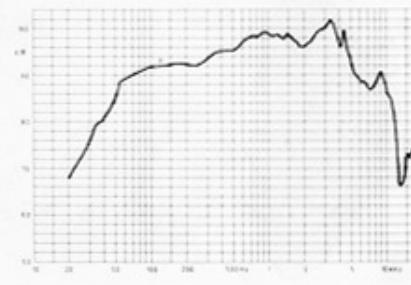
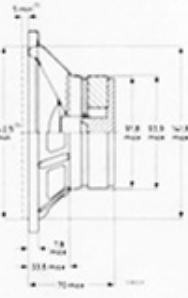
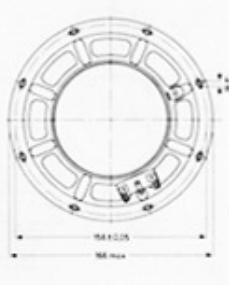
Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 12252/W8	240 60173	230 Watt	100 Watt	24 Hz	- 1.5 kHz	279 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 15240/W8	240 60083	120 Watt	60 Watt	15 Hz	- 3.6 kHz	347 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 70652/W4	240 50224	90 Watt	40 Watt	44 Hz	- 4 kHz	143 mm



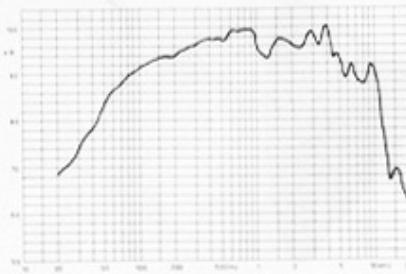
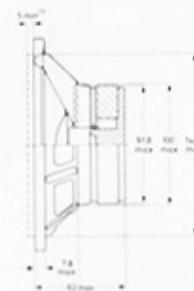
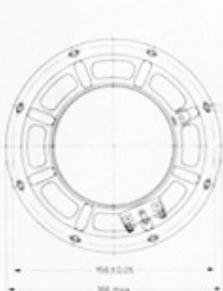
PHILIPS

Loudspeakers-Woofers
Bass-Lautsprecher
Haut-Parleurs basses

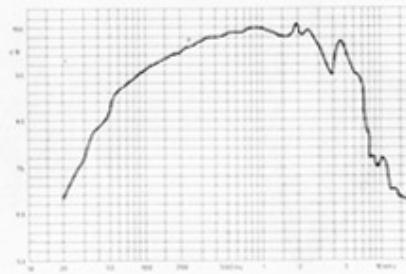
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Altoparlanti-Woofers
Bassokaiuttimet

Altifalantes-Woofers
Altavoces-Woofers
Högtalara-Bas

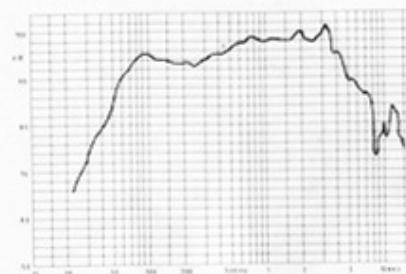
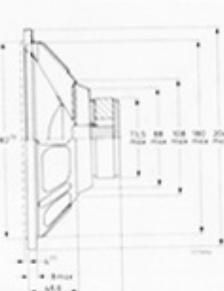
Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 70654/W8	240 60187	115 Watt	50 Watt	48 Hz	- 5 kHz	142 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 80110/W6	240 60155	140 Watt	60 Watt	40 Hz	- 2 kHz	180 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 80602/W8	240 60104	115 Watt	50 Watt	42 Hz	- 2 kHz	182 mm



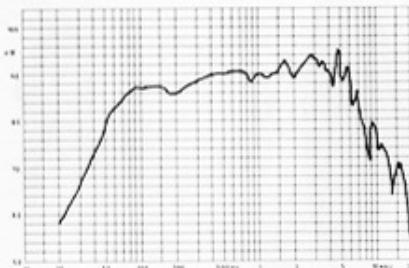
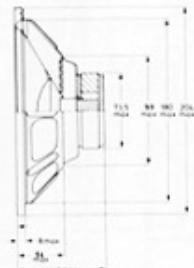
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Loudspeakers-Woofers
Bass-Lautsprecher
Haut-Parleurs basses

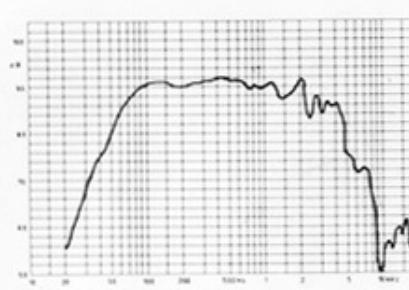
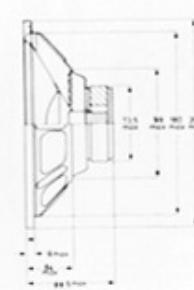
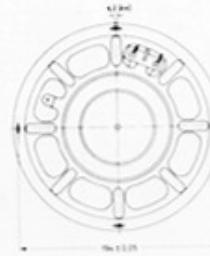
Luidsprekers-Woofers
Altoparlanti-Woofers
Bassokaiuttimet

Altifalantes-Woofers
Altavoces-Woofers
Högtalar-Bas

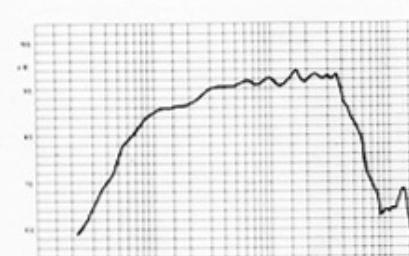
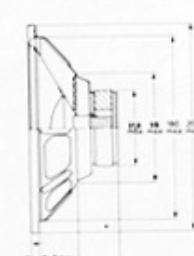
Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 80622/W4	240 60288	150 Watt	65 Watt	42 Hz	- 6 kHz	180 mm
AD 80622/W8	240 60287	150 Watt	65 Watt	42 Hz	- 6 kHz	180 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 80626/W4	240 60283	140 Watt	60 Watt	42 Hz	- 4 kHz	180 mm
AD 80626/W8	240 60282	140 Watt	60 Watt	42 Hz	- 4 kHz	180 mm



Type no.	Code no. 4822	System music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
00 80667/W8	240 60286	160 Watt	70 Watt	40 Hz	- 3.5 kHz	180 mm



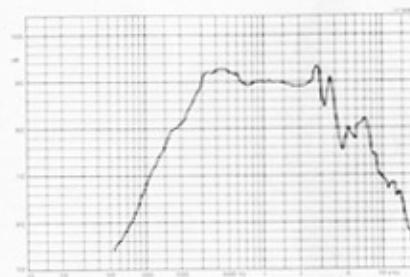
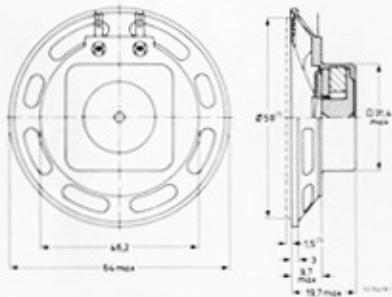
PHILIPS

Loudspeakers-Full Ranges
Universal-Lautsprecher
Haut-Parleurs Standard

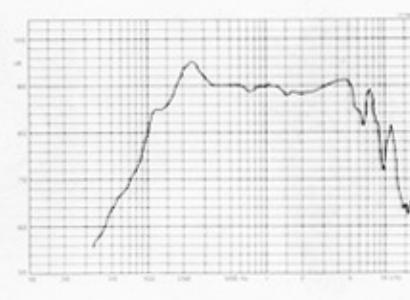
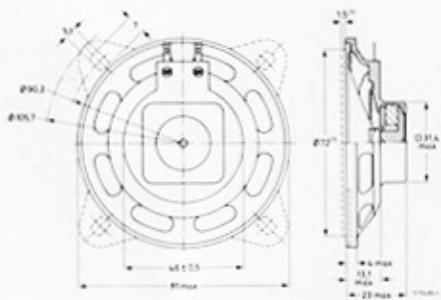
Luidsprekers-Full Ranges
Altoparlanti-Standard
Kokoalueen kaiuttimet

Altifalantes-Full Ranges
Altavoces-Standard
Högtalare-Standard

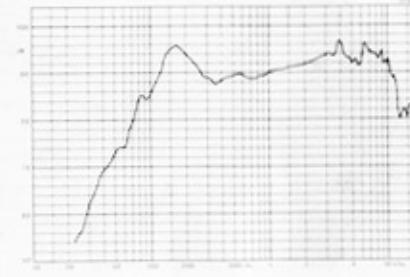
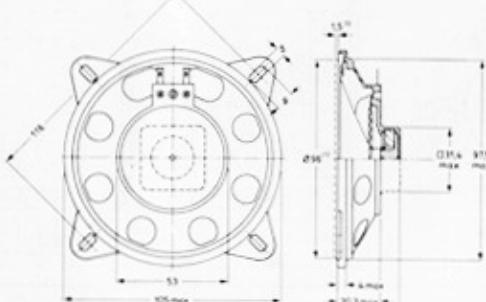
Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 2071/Z4	240 30123	1.5 Watt	0.55 Watt	360 Hz	- 4 kHz	59 mm
AD 2071/Z8	240 30124	1.5 Watt	0.55 Watt	360 Hz	- 4 kHz	59 mm



Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 3371/Y4	240 30178	3 Watt	2 Watt	250 Hz	- 6 kHz	72 mm
AD 3371/Y8	240 30179	3 Watt	2 Watt	250 Hz	- 6 kHz	72 mm
AD 3371/Y150	240 30172	3 Watt	2 Watt	250 Hz	- 6 kHz	72 mm



Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 4472/X4	240 40094	4.5 Watt	3 Watt	170 Hz	- 15 kHz	96 mm
AD 4472/X8	240 40095	4.5 Watt	3 Watt	170 Hz	- 15 kHz	96 mm
AD 4472/X15	240 40096	4.5 Watt	3 Watt	170 Hz	- 15 kHz	96 mm



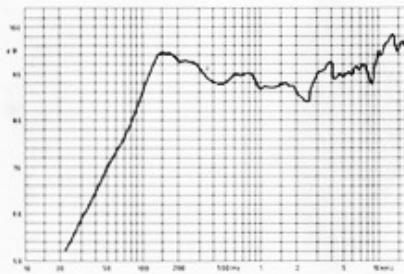
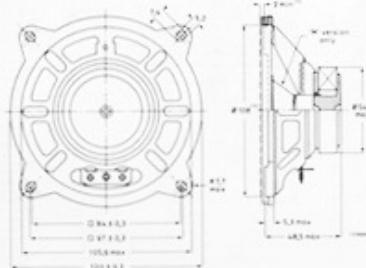
PHILIPS

Loudspeakers-Full Ranges
Universal-Lautsprecher
Haut-Parleurs Standard

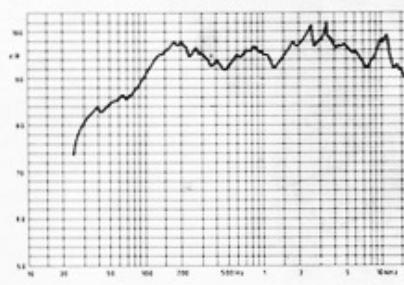
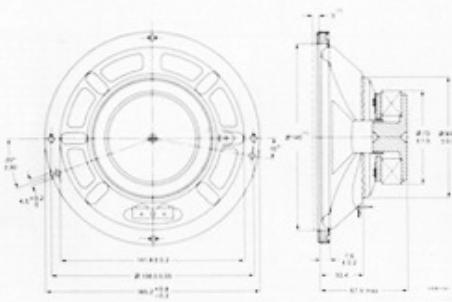
Luidsprekers-Full Ranges
Altoparlanti-Standard
Kokoalueen kaiuttimet

Altifalantes-Full Ranges
Altavoces-Standard
Högtalare-Standard

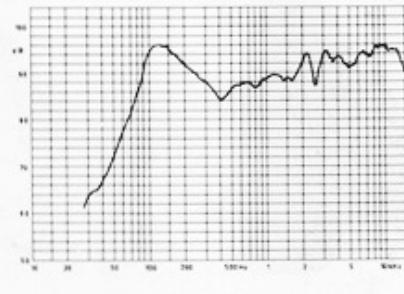
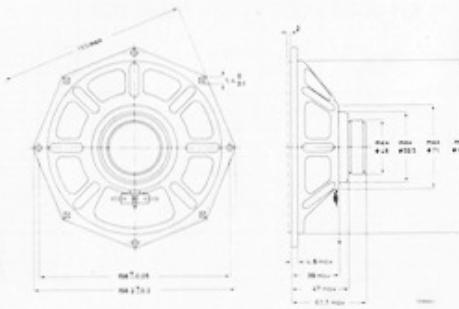
Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 50800/M4	240 50203	9 Watt	6 Watt	140 Hz	- 20 kHz	108 mm
AD 50800/M8	240 50204	9 Watt	6 Watt	140 Hz	- 20 kHz	108 mm



Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 70631/M4	240 60184	25 Watt	15 Watt	60 Hz	- 20 kHz	145 mm
AD 70631/M8	240 60185	25 Watt	15 watt	60 Hz	- 20 kHz	145 mm



Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 70845/M4	240 50181	12 Watt	8 Watt	100 Hz	- 15 kHz	141 mm
AD 70845/M8	240 50182	12 Watt	8 Watt	100 Hz	- 15 kHz	141 mm



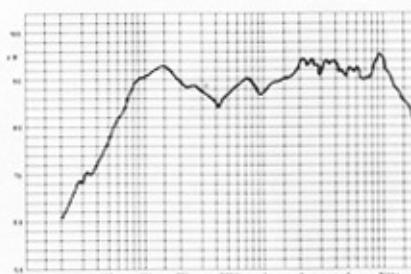
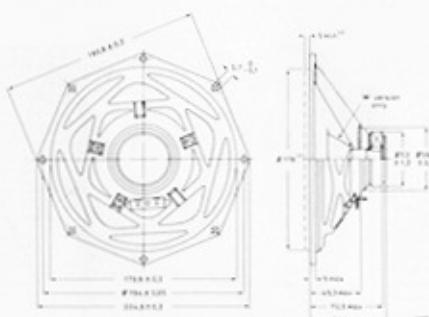
PHILIPS

Loudspeakers-Full Ranges
Universal-Lautsprecher
Haut-Parleurs Standard

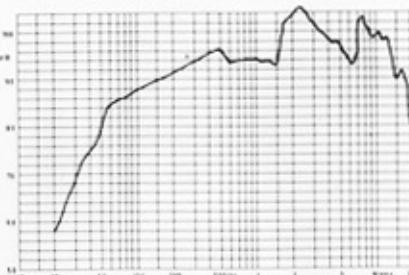
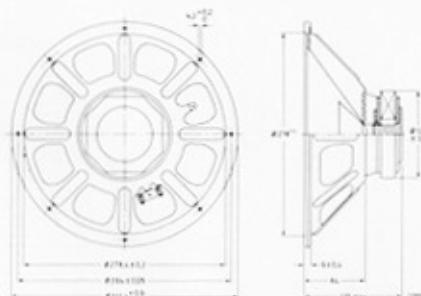
Luidsprekers-Full Ranges
Altoparlanti-Standard
Kokoalueen kaiuttimet

Altifalantes-Full Ranges
Altavoces-Standard
Högtalare-Standard

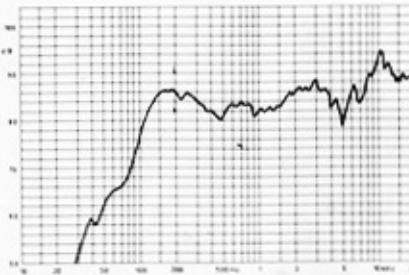
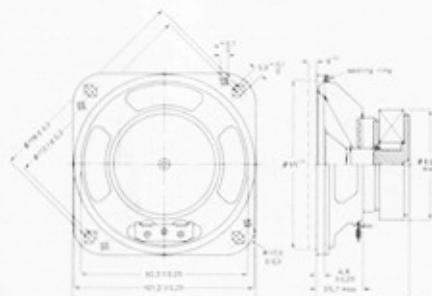
Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 80800/M4	240 60138	20 Watt	13 Watt	85 Hz	- 17 kHz	176 mm
AD 80800/M8	240 60139	20 Watt	13 Watt	85 Hz	- 17 kHz	176 mm



Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 12202/M8	240 60175	150 Watt	100 Watt	45 Hz	- 12 kHz	278 mm



Type no.	Code no. 4822	Music power	Power handling capacity	Resonance frequency	Frequency range	Baffle cut-out
AD 44400/MK4	240 40147	25 Watt	15 Watt	110 Hz	- 20 kHz	95 mm



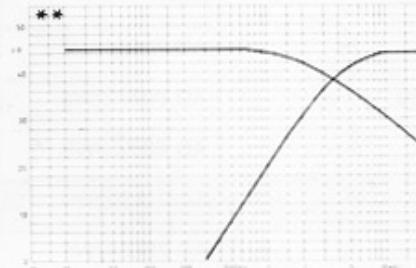
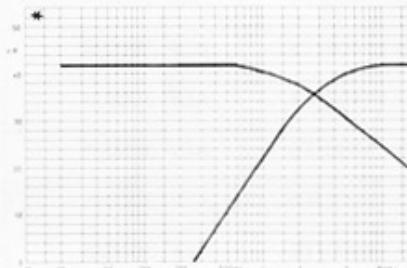
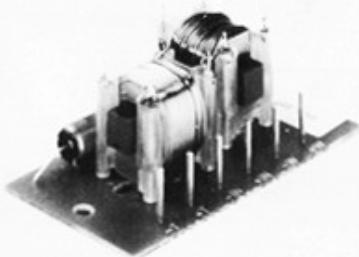
PHILIPS

Cross-over networks
Frequenzweichen
Filtres

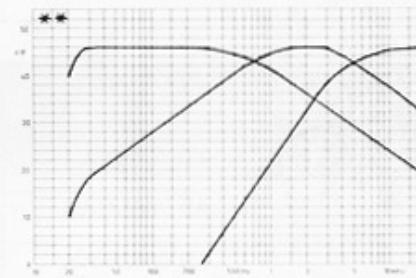
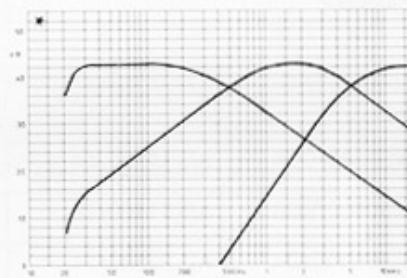
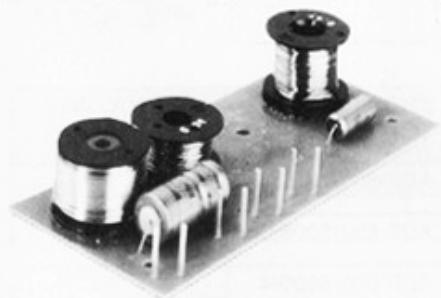
Scheidingsfilters
Cross-over
Jakosuotimet

Circuito Separador
Filtros
Delningsfilter

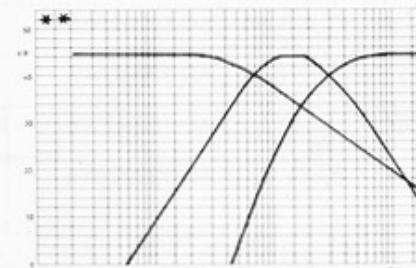
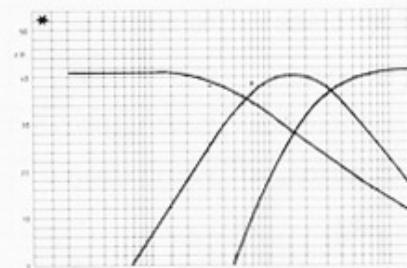
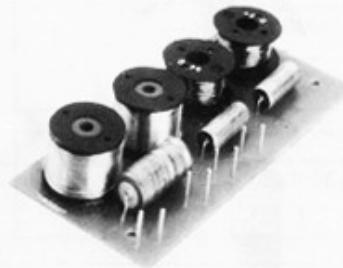
Type no.	Code no. 4822	Music power	Cross - over frequency	Impedance	Slope dB/oct.
ADF 3000/4*	216 90444	120 Watt	3000 Hz	4 Ω	low pass 6
ADF 3000/8**	216 90443	120 Watt	3000 Hz	8 Ω	low pass 6 high pass 12



Type no.	Code no. 4822	Music power	Cross - over frequency	Impedance	Slope dB/oct.
ADF 600/5000/4*	216 90435	60 Watt	600 - 5000 Hz	4 Ω	low pass 6 band pass 6
ADF 600/5000/8**	216 90436	60 Watt	600 - 5000 Hz	8 Ω	high pass 12 low pass 6 band pass 6 high pass 12



Type no.	Code no. 4822	Music power	Cross - over frequency	Impedance	Slope dB/oct.
ADF 700/3000/4*	216 90439	120 Watt	700 - 3000 Hz	4 Ω	low 6 band pass 2 * 12
ADF 700/3000/8**	216 90438	120 Watt	700 - 3000 Hz	8 Ω	high 12 low pass 6 band pass 2 * 12 high pass 12



PHILIPS

**Loudspeaker-Combinations
Lautsprecher-Kombinationen
Combinaisons de Haut-Parleurs**

**Luidspreker-Combinaties
Altoparlanti-Combinazioni
Kaiutinyhdistelmät**

**Altifalantes-combinações
Altovoces-sistemas
Högtalare-Kombinationen**

System music power (W)	WOOFERS	TWEETERS	CROSS-OVER NETWORKS	VOLUME (L)
30	AD 70652/W4	AD 2273/T4	ADF 3000/4	15
	AD 70654/W8	AD 2273/T8	ADF 3000/8	
40	AD 70652/W4	AD 11400/T4	ADF 3000/4	20
	AD 70654/W8	AD 11400/T8	ADF 3000/8	
50	AD 80622/W4	AD 11400/T4	ADF 3000/4	25
	AD 80622/W8	AD 11400/T8	ADF 3000/8	
60	AD 70652/W4	AD 11600/T4	ADF 3000/4	
	AD 70654/W8	AD 11600/T8	ADF 3000/8	
	AD 80626/W4	AD 22360/T4	ADF 3000/4	
	AD 80626/W8	AD 22360/T8	ADF 3000/8	
	AD 80626/W4	AD 11400/T4	ADF 3000/4	
	AD 80626/W8	AD 11400/T8	ADF 3000/8	
70	00 80667/W8	00 11601/T8	ADF 3000/8	30
80	00 80667/W8	2xAD11600/T4*	ADF 3000/8	25

* serie

PHC/PMAX (W)	WOOFERS	SQUAKERS-	TWEETERS	CROSS-OVER NETWORKS	VOLUME (L)
40	AD 70652/W4	AD 50600/SQ4	AD 11400/T4	ADF 600/5000/4	20
	AD 70654/W8	AD 50600/SQ8	AD 11400/T8	ADF 600/5000/8	
60	AD 80626/W4	AD 50600/SQ4	AD 22360/T4	ADF 600/5000/4	25
	AD 80626/W8	AD 50600/SQ8	AD 22360/T8	ADF 600/5000/8	
	AD 80622/W4	AD 50600/SQ4	AD 11600/T4	ADF 700/3000/4	
	AD 80602/W8	AD 50600/SQ8	AD 11600/T8	ADF 700/3000/8	
70	00 80667/W8	AD 02110/SQ8	00 11601/T8	ADF 700/3000/8	30
80	AD 10672/W8	AD 50600/SQ8	00 11601/T8	ADF 700/3000/8	35
100	AD 10202/W8	AD 50600/SQ8	00 11601/T8	ADF 700/3000/8	45
	AD 10202/W8	AD 02110/SQ8	00 11601/T8	ADF 700/3000/8	
	AD 12202/W8	AD 02110/SQ8	00 11601/T8	ADF 700/3000/8	
120	AD 15240/W8	2xAD 02110/SQ4*	2xAD 11600/T4*	ADF 700/3000/8	50-80
	AD 12202/W8	2xAD 02110/SQ4*	2xAD 11600/T4*	ADF 700/3000/8	

* serie



PHILIPS

Connectionmaterial

Anschlussmaterial

Matériel de connexion

Aansluitmateriaal

Materiale di connessione

Kytkentämateriaali

Material de ligação

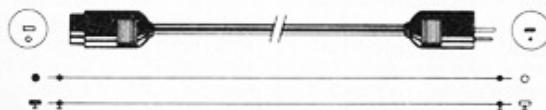
Material de conexión

Anslutmateriel

Code no. 4822	Colour	length	Voltage	Numbers of cores	External dimensions
323 30002	white	100 m	250 V	2 * 0.5	2.8 * 5.5 mm
323 30006	black	100 m	250 V	2 * 0.75	3.2 * 6.25 mm
322 20014	grey	100 m	250 V	2 * 0.4	2.1 * 4.1 mm



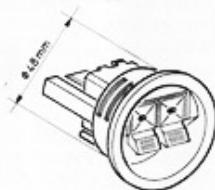
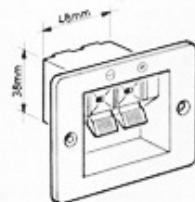
SBC 058	4822 321 20176	black	5.0 m	SBC 063	4822 321 20329	black	10.0 m
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4822 264 30041	grey	4822 266 20037	grey
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4822 290 60292	black	4822 290 60461	black
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		Replacement				Replacement	
Code no.	Type no.	code no.	Type no.	Code no.	Type no.	code no.	Type no.
4822		4822		4822		4822	
240 10007	AD 7091/M4	240 50181	AD 70845/M4	240 30108	AD 2271/T4	240 30144	AD 2273/T4
240 10014	AD 7091/X8	240 50182	AD 70845/M8	240 30109	AD 2271/T8	240 30143	AD 2273/T8
240 10015	AD 3729/SM	240 50182	AD 70845/M8	240 30114	AD 3071/Y8		
240 10016	AD 1055/W8	240 60112	AD 10650/W8	240 30117	AD 2290/T4	240 70061	AD 2296/T4
240 10021	AD 7091/X4	240 50181	AD 70845/M4	240 30118	AD 2290/T8	240 30237	AD 2296/T8
240 10027	AD 7090/M8	240 50182	AD 70845/M8	240 30123	AD 2071/Z4		
240 20014	AD 4681/X4	240 20257	AD 46727/X4	240 30124	AD 2071/Z8		
240 20035	AD 4681/X8			240 30126	AD 2071/Z25		
240 20042	AD 3696/RM	240 20098	AD 6980/X4	240 30127	AD 3071/Y4		
240 20044	AD 3590/X50	240 20173	AD 3595/X50	240 30131	AD 3071/Y25		
240 20045	AD 4681/X15	240 20191	AD 4686/X15	240 30132	AD 2095/T4	240 30156	AD 2096/T4
240 20067	AD 4680/Z4	240 20257	AD 46727/X4	240 30133	AD 2095/T8	240 20251	AD 20311/T8
240 20068	AD 4680/Z8	240 20035	AD 4681/X8	240 30134	AD 2095/T15	240 20254	AD 20311/T15
240 20074	AD 3590/X8	240 20169	AD 3595/X8	240 30135	AD 2295/T4	240 70061	AD 2296/T4
240 20075	AD 3590/X15	240 20171	AD 3595/X15	240 30136	AD 2295/T8	240 30237	AD 2296/T8
240 20077	AD 3680/X8	240 30295	AD 38902/P8	240 30143	AD 2273/T8		
240 20079	AD 4680/Z15	240 20191	AD 4686/X15	240 30144	AD 2273/T4		
240 20082	AD 4681/X25	240 20242	AD 46951/X25S	240 30156	AD 2096/T4		
240 20083	AD 4680/M8	240 20035	AD 4681/X8	240 30165	AD 40501/W4		
240 20087	AD 5780/X8	240 20227	AD 36901/X8	240 30172	AD 3371/Z150		
240 20092	AD 5780/M8	240 20227	AD 36901/X8	240 30178	AD 3371/Z4		
240 20096	AD 6980/X4	240 20098	AD 6980/M4	240 30179	AD 3371/Z8		
240 20097	AD 6980/X8	240 20099	AD 6980/M8	240 30237	AD 2296/T8		
240 20098	AD 6980/M4			240 30246	AD 40880/X4		
240 20099	AD 6980/M8			240 30294	AD 20370/T4		
240 20103	AD 3890/X8	240 30295	AD 38902/P8	240 30295	AD 38902/P8		
240 20108	AD 4680/MX8	240 20035	AD 4681/X8	240 30368	AD 26951/X8		
240 20116	AD 4691/M8	240 20222	AD 46900/M8	240 40039	AD 4090/X8	240 40108	AD 4095/X8
240 20121	AD 4681/P8	240 20035	AD 4681/X8	240 40051	AD 4070/Y8	240 40084	AD 4072/X8
240 20122	AD 4691/X8	240 20222	AD 46900/M8	240 40052	AD 4070/Y4	240 40083	AD 4072/X4
240 20124	AD 3590/X25	240 20172	AD 3595/X25	240 40054	AD 4080/X4	240 30246	AD 40880/X4
240 20125	AD 4681/X8K	240 20035	AD 4681/X8	240 40055	AD 4080/X8	240 40078	AD 4085/X8
240 20127	AD 4681/M8	240 20035	AD 4681/X8	240 40056	AD 4080/X15	240 40142	AD 4072/X15
240 20128	AD 3890/X85	240 30295	AD 38902/P8	240 40057	AD 4080/Z4	240 30246	AD 40880/X4
240 20129	AD 4691/X25	240 20242	AD 46951/X25S	240 40058	AD 4080/Z8	240 40078	AD 4085/X8
240 20133	AD 5790/M8	240 20227	AD 36901/X8	240 40062	AD 4080/X25	240 40086	AD 4072/X25
240 20139	AD 3890/X25			240 40063	AD 4080/Z15	240 40142	AD 4072/X15
240 20143	AD 4691/M25	240 20242	AD 46951/X25S	240 40076	AD 4085/X4	240 30246	AD 40880/X4
240 20144	AD 4692/X25			240 40077	AD 4481/X4K		
240 20147	AD 4890/X15	240 20217	AD 48901/X15	240 40078	AD 4085/X8		
240 20169	AD 3595/X8			240 40079	AD 4485/X4	240 40094	AD 4472/X4
240 20171	AD 3595/X15			240 40083	AD 4072/X4		
240 20172	AD 3595/X25			240 40084	AD 4072/X8		
240 20173	AD 3595/X50			240 40086	AD 4072/X25		
240 20177	AD 4686/X4	240 20257	AD 46727/X4	240 40088	AD 4050/W4	240 30165	AD 40501/W4
240 20178	AD 4891/X15	240 20217	AD 48901/X15	240 40089	AD 4050/W8	240 40113	AD 40500/W8
240 20181	AD 5791/M8	240 20227	AD 36901/X8	240 40091	AD 4470/Y4	240 40094	AD 4472/X4
240 20186	AD 4696/X25	240 20242	AD 46951/X25S	240 40092	AD 4470/Y15	240 40096	AD 4472/X15
240 20191	AD 4686/X15			240 40094	AD 4472/X4		
240 20192	AD 4686/X25	240 20242	AD 46951/X25S	240 40095	AD 4472/X8		
240 20199	AD 48900/X15	240 20217	AD 48901/X15	240 40096	AD 4472/X15		
240 20202	AD 4691/X15	240 20223	AD 46900/M15S	240 40098	AD 4085/X15	240 40142	AD 4072/X15
240 20217	AD 48901/X15			240 40099	AD 4485/X15	240 40096	AD 4472/X15
240 20222	AD 46900/M8			240 40108	AD 4095/X8		
240 20223	AD 46900/M15S			240 40111	AD 40500/W4	240 30165	AD 40501/W4
240 20224	AD 46800/M4S	240 20257	AD 46727/X4	240 40113	AD 40500/W8	240 40138	AD 44901/X15
240 20227	AD 36901/X8			240 40117	AD 40900/M15	240 40138	AD 44901/X15
240 20231	AD 38901/P8	240 30295	AD 38902/P8	240 40137	AD 44901/M15	240 40138	AD 44901/X15
240 20242	AD 46951/X25S			240 40138	AD 44901/X15		
240 20251	AD 20311/T8			240 40142	AD 4072/X15		
240 20254	AD 20311/T15			240 40146	AD 40501/W8		
240 20257	AD 46727/X4			240 40147	AD 4440/MK4		
240 30018	AD 2070/Z4	240 30123	AD 2071/Z4	240 40159	AD 26320/X8	240 30368	AD 26951/X8
240 30033	AD 2070/Z8	240 30124	AD 2071/Z8	240 40681	AD 4485/X8	240 40095	AD 4472/X8
240 30046	AD 3070/Y4	240 30127	AD 3071/Y4	240 50028	AD 3702/S	240 50093	AD 7066/W8
240 30047	AD 3070/Y8	240 30114	AD 3071/Y8	240 50031	AD 3701/RM	240 60184	AD 70631/M4
240 30049	AD 3070/Y25	240 30131	AD 3071/Y25	240 50047	AD 7065/W8	240 50093	AD 7066/W8
240 30057	AD 2070/T4	240 30144	AD 2273/T4	240 50058	AD 5080/X4	240 50203	AD 50800/M4
240 30058	AD 2070/T8	240 30143	AD 2273/T8	240 50059	AD 5080/X8	240 50204	AD 50800/M8
240 30084	AD 2090/T15	240 20254	AD 20311/T15	240 50062	AD 5080/X25		
240 30091	AD 2071/T4	240 30144	AD 2273/T4	240 50063	AD 5080/M4	240 50203	AD 50800/M4
240 30092	AD 2071/T8	240 30143	AD 2273/T8	240 50064	AD 5080/M8	240 50204	AD 50800/M8
240 30094	AD 2090/T4	240 30156	AD 2096/T4	240 50067	AD 5080/Z4	240 50203	AD 50800/M4
240 30105	AD 2090/T8	240 20251	AD 20311/T8	240 50068	AD 5080/Z8	240 50204	AD 50800/M8

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		Replacement				Replacement	
Code no.	Type no.	code no.	Type no.	Code no.	Type no.	code no.	Type no.
4822		4822		4822		4822	
240 50072	AD 7080/X4	240 50181	AD 70845/M4	240 60098	AD 80651/W4	240 60103	AD 80652/W4
240 50073	AD 7080/X8	240 50182	AD 70845/M8	240 60101	AD 80652/W8	240 60283	AD 80626/W8
240 50074	AD 7080/M4	240 50181	AD 70845/M4	240 60102	AD 80603/W4	240 60103	AD 80652/W4
240 50075	AD 7080/M8	240 50182	AD 70845/M8	240 60103	AD 80652/W4		
240 50082	AD 7061/M4	240 60184	AD 70631/M4	240 60104	AD 80602/W8		
240 50083	AD 7061/M8	240 60185	AD 70631/M8	240 60105	AD 80602/W4	240 60288	AD 80622/W4
240 50084	AD 7091/M8	240 50182	AD 70845/M8	240 60106	AD 80672/W4	240 60155	AD 80110/W6
240 50089	AD 5060/SQ4	240 50212	AD 50600/SQ4	240 60109	AD 80672/W8	240 60137	AD 80680/W8
240 50091	AD 5060/SQ8	240 50213	AD 50600/SQ8	240 60111	AD 12200/W8	240 60173	AD 12252/W8
240 50093	AD 7066/W8			240 60112	AD 10650/W8		
240 50094	AD 7063/M4	240 60184	AD 70631/M4	240 60137	AD 80680/W8		
240 50095	AD 0210/SQ8	240 50116	AD 0211/SQ8	240 60144	AD 10600/W8	240 60112	AD 10650/W8
240 50096	AD 0210/SQ4	240 50199	AD 02110/SQ4	240 60146	AD 80405/W8	240 60189	AD 80400/W8
240 50098	AD 5063/M8	240 60185	AD 70631/M8	240 60155	AD 80110/W6		
240 50099	AD 7066/MFB			240 60168	AD 12202/W8		
240 50102	AD 7063/M4S	240 60184	AD 70631/M4	240 60169	AD 10672/W8		
240 50109	AD 5081/X8	240 50204	AD 50800/M8	240 60173	AD 12252/W8		
240 50111	AD 5081/X4	240 50203	AD 50800/M4	240 60175	AD 12202/M8		
240 50116	AD 0211/SQ8			240 60181	AD 80606/W8G		
240 50117	AD 0211/SQ4	240 50199	AD 02110/SQ4	240 60184	AD 70631/M4		
240 50122	AD 70610/W4	240 60186	AD 70654/W4	240 60185	AD 70631/M8		
240 50124	AD 5062/SQ8	240 50213	AD 50600/SQ8	240 60186	AD 70654/W4		
240 50131	AD 02111/SQ8			240 60187	AD 70654/W8		
240 50132	AD 70611/W4	240 60186	AD 70654/W4	240 60188	AD 10202/W8		
240 50135	AD 02111/SQ4			240 60189	AD 80400/W8		
240 50137	AD 02112/SQ8	240 50155	AD 0211/SQ8	240 60282	AD 80626/W8		
240 50142	AD 70652/W8	240 60187	AD 70654/W8	240 60283	AD 80626/W4		
240 50143	AD 70630/M4	240 60184	AD 70631/M4	240 60286	OO 80667/W8		
240 50144	AD 70630/M8	240 60185	AD 70631/M8	240 60287	AD 80622/W8		
240 50145	AD 70602/W4	240 50224	AD 70652/W4	240 60288	AD 80622/W4		
240 50146	AD 70602/W8	240 60187	AD 70654/W8	240 70003	AD 0160/T4	240 70123	AD 11600/T4
240 50148	AD 02150/SQ4			240 70004	AD 0160/T8	240 70118	AD 11400/T4
240 50149	AD 02150/SQ8	240 50155	AD 02110/SQ8	240 70005	AD 0140/T4		
240 50152	AD 70650/W4	240 50224	AD 70652/W4	240 70009	AD 0161/T8		
240 50153	AD 70650/W8	240 60187	AD 70654/W8	240 70011	AD 0140/T8		
240 50155	AD 02110/SQ8			240 70012	AD 0161/T15	240 70021	AD 0163/T15
240 50177	AD 70801/W8			240 70013	AD 0162/T15	240 70021	AD 0163/T15
240 50181	AD 70845/M4			240 70015	AD 0162/T8		
240 50182	AD 70845/M8			240 70017	AD 0141/T8	240 70119	AD 11400/T8
240 50199	AD 02110/SQ4			240 70018	AD 0163/T8		
240 50203	AD 50800/M4			240 70019	AD 0141/T4	240 70118	AD 11400/T4
240 50204	AD 50800/M8			240 70021	AD 0163/T8		
240 50212	AD 50600/SQ4			240 70023	AD 01605/T8	240 70124	AD 11600/T8
240 50213	AD 50600/SQ8			240 70024	AD 01605/T4	240 70123	AD 11600/T4
240 50224	AD 70652/W4			240 70025	AD 01600/T8	240 70124	AD 11600/T8
240 50226	AD 70803/W8	240 50177	AD 70801/W8	240 70026	AD 01600/T4	240 70123	AD 11600/T4
240 50227	AD 51501/W4	240 50246	AD 51502/WM4	240 70032	AD 0144/T15		
240 50231	AD 02170/SQ8			240 70035	AD 0144/T15S	240 70032	AD 0144/T15
240 50243	AD 02160/SQ4			240 70054	AD 01610/T8	240 70124	AD 11600/T8
240 50246	AD 51502/WM4			240 70057	AD 01631/T8	240 70124	AD 11600/T8
240 60006	AD 1050/M7	240 60056	AD 1065/M8	240 70061	AD 2296/T4		
240 60009	AD 1256/M8	240 60175	AD 12202/M8	240 70063	AD 01420/T4	240 70118	AD 11400/T4
240 60012	AD 1255/W8	240 60168	AD 12202/W8	240 70064	AD 01420/T8	240 70119	AD 11400/T8
240 60041	AD 12100/W8	240 60168	AD 12202/W8	240 70065	AD 01631/T4	240 70123	AD 11600/T4
240 60055	AD 1065/M4			240 70086	AD 20310/T15	240 20254	AD 20311/T15
240 60056	AD 1065/M8			240 70091	AD 20310/T8	240 20251	AD 20311/T8
240 60059	AD 12100/M8	240 60175	AD 12202/M8	240 70101	AD 20310/T4	240 30294	AD 20370/T4
240 60061	AD 10100/W8	240 60112	AD 10650/W8	240 70115	AD 22360/T4		
240 60062	AD 1065/W8	240 60112	AD 10650/W8	240 70116	AD 22302/T8	240 70191	AD 22360/T8
240 60066	AD 8061/W6			240 70117	AD 22850/T8	240 70128	AD 22851/T8
240 60069	9710/M8			240 70118	AD 11400/T4		
240 60075	AD 12100/MFB			240 70119	AD 11400/T8		
240 60077	AD 10100/MFB			240 70121	AD 11430/T4	240 70118	AD 11400/T4
240 60081	AD 8066/W4	240 60103	AD 80652/W4	240 70122	AD 11430/T8	240 70119	AD 11400/T8
240 60083	AD 15240/MK4			240 70123	AD 11600/T4		
240 60085	AD 80650/W4	240 60103	AD 80652/W4	240 70124	AD 11600/T8		
240 60088	AD 12250/W8	240 60173	AD 12252/W8	240 70128	AD 22851/T8		
240 60091	AD 80600/W4	240 60103	AD 80652/W4	240 70191	AD 22360/T8		
240 60094	AD 80603/W8	240 60181	AD 80606/WG8	240 70192	00 11601/T8		
240 60096	AD 80601/W4	240 60103	AD 80652/W4	240 70193	00 00401/T8		
240 60097	AD 80601/W8	240 60104	AD 80602/W8				

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Lista de sustituciones
Ersättningslisten

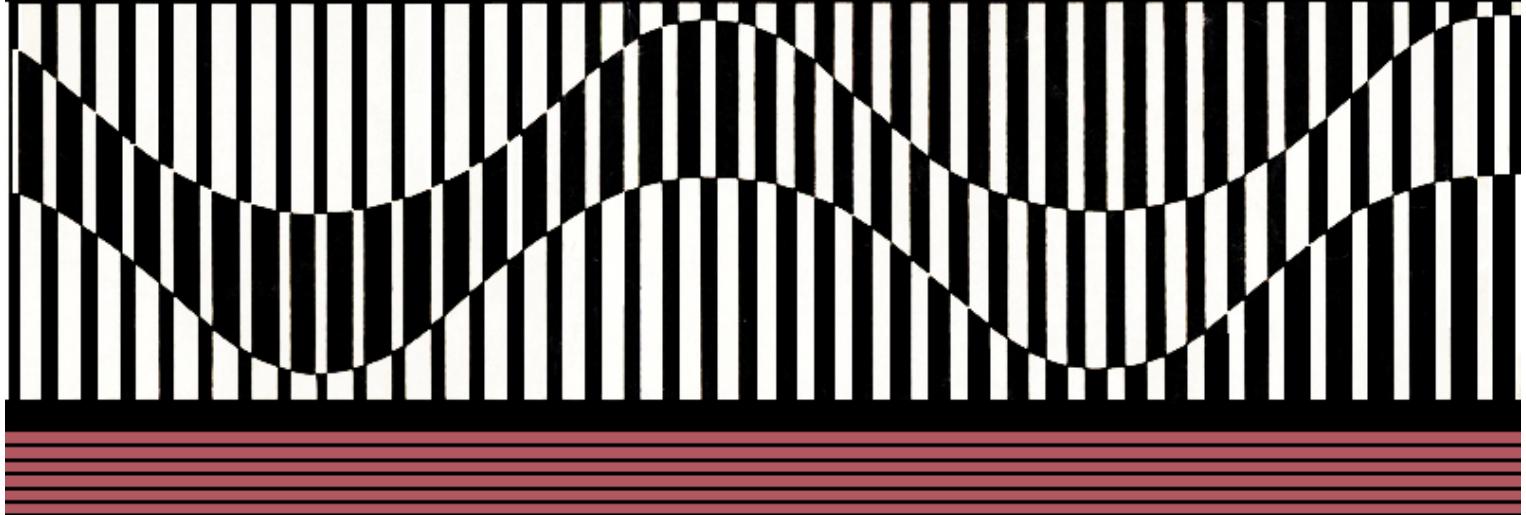
		Replacement				Replacement	
Type no.	Code no. 4822						
AD 0140/T4		AD 11400/T4	240 70118	AD 20310/T15		AD 20311/T15	240 20254
AD 0140/T8	240 70011	AD 11400/T4	240 70118	AD 20311/T8	240 20251		
AD 0141/T4		AD 11400/T8	240 70119	AD 20311/T15	240 20254		
AD 0141/T8		AD 11400/T4	240 70118	AD 20370/T4	240 30294	AD 2273/T4	240 30144
AD 01420/T4		AD 11400/T8	240 70119	AD 2070/T4		AD 2273/T8	240 30143
AD 01420/T8		AD 11400/T4	240 70118	AD 2070/T8			
AD 0144/T15S		AD 0144/T15	240 70032	AD 2070/Z4		AD 2071/Z4	240 30123
AD 0144/T15	240 70032	AD 11600/T4	240 70123	AD 2070/Z8		AD 2071/Z8	240 30124
AD 0160/T4		AD 11600/T4	240 70123	AD 2071/T4		AD 2273/T4	240 30144
AD 0160/T8	240 70004	AD 11600/T4	240 70123	AD 2071/T8		AD 2273/T8	240 30143
AD 01600/T4		AD 11600/T8	240 70124	AD 2071/Z4	240 30123		
AD 01600/T8		AD 11600/T4	240 70123	AD 2071/Z8	240 30124		
AD 01605/T4		AD 11600/T8	240 70123	AD 2071/Z25	240 30126		
AD 01605/T8		AD 11600/T8	240 70124	AD 2090/T4		AD 2096/T4	240 30156
AD 0161/T8	240 70009			AD 2090/T8		AD 20311/T8	240 20251
AD 0161/T15		AD 01631/T15	240 70021	AD 2090/T15		AD 20311/T15	240 20254
AD 01610/T8		AD 11600/T8	240 70124	AD 2095/T4		AD 2096/T4	240 30156
AD 0162/T8	240 70015	AD 0163/T15	240 70021	AD 2095/T8		AD 20311/T8	240 20251
AD 0162/T15				AD 2095/T15		AD 20311/T15	240 20254
AD 0163/T8	240 70018			AD 22302/T8		AD 22360/T8	240 70191
AD 0163/T15	240 70021			AD 2096/T4	240 30156		
AD 01631/T4		AD 11600/T4	240 70123	AD 22360/T4	240 70115		
AD 01631/T8		AD 11600/T8	240 70124	AD 22360/T8	240 70191		
AD 0210/SQ4		AD 02110/SQ4	240 50199	AD 2271/T4		AD 2273/T4	240 30144
AD 0210/SQ8		AD 0211/SQ8	240 50116	AD 2271/T8		AD 2273/T8	240 30143
AD 0211/SQ4		AD 02110/SQ4	240 50199	AD 2273/T4	240 30144		
AD 0211/SQ8	240 50116			AD 2273/T8	240 30143		
AD 02110/SQ4	240 50199			AD 22850/T8		AD 22851/T8	240 70128
AD 02110/SQ8	240 50155			AD 22851/T8	240 70128		
AD 02111/SQ4	240 50135			AD 2290/T4		AD 2296/T4	240 70061
AD 02111/SQ8	240 50131	AD 02110/SQ8	240 50155	AD 2290/T8		AD 2296/T8	240 30237
AD 02112/SQ8				AD 2295/T4		AD 2296/T4	240 70061
AD 02150/SQ4	240 50148	AD 02110/SQ8	240 50155	AD 2295/T8		AD 2296/T8	240 30237
AD 02150/SQ8		AD 02110/SQ8	240 50155	AD 2296/T4	240 70061		
AD 02160/SQ4	240 50243			AD 2296/T8	240 30237		
AD 02170/SQ8	240 50231			AD 26320/X8		AD 26951/X8	240 30368
00 00401/T8	240 70193			AD 26951/X8	240 30368		
AD 10100/MFB	240 60077			AD 3070/Y4		AD 3071/Y4	240 30127
AD 10100/W8		AD 10650/W8	240 60112	AD 3070/Y8		AD 3071/Y8	240 30114
AD 10202/W8	240 60188			AD 3070/Y25		AD 3071/Y25	240 30131
AD 1050/M7		AD 1065/M8	240 60056	AD 3071/Y4	240 30127		
AD 1055/W8		AD 10650/W8	240 60112	AD 3071/Y8	240 30114		
AD 1056/W4		AD 10100/W4	240 60052	AD 3071/Y25	240 30131		
AD 1056/W8		AD 10650/W8	240 60112	AD 3371/Z4	240 30178		
AD 10600/W8		AD 10650/W8	240 60112	AD 3371/Z8	240 30179		
AD 10650/W8	240 60112			AD 3371/Z150	240 30172		
AD 1065/M4	240 60055			AD 3590/X8		AD 3595/X8	240 20169
AD 1065/M8	240 60056			AD 3590/X15		AD 3595/X15	240 20171
AD 1065/W8		AD 10650/W8	240 60112	AD 3590/X25		AD 3595/X25	240 20172
AD 10672/W8	240 60169			AD 3590/X50		AD 3595/X50	240 20173
AD 11400/T4	240 70118			AD 3595/X8	240 20169		
AD 11400/T8	240 70119	AD 11400/T4	240 70118	AD 3595/X15	240 20171		
AD 11430/T4		AD 11400/T8	240 70119	AD 3595/X25	240 20172		
AD 11600/T4	240 70123			AD 3595/X50	240 20173		
AD 11600/T8	240 70124			AD 3696/RM		AD 6980/X4	240 20098
00 11601/T8	240 70192			AD 36901/X8	240 20227		
AD 12100/HP8		AD 12202/M8	240 60175	AD 3701/RM		AD 70631/M4	240 60184
AD 12100/M8		AD 12202/M8	240 60175	AD 3702/S		AD 7066/W8	240 50093
AS 12100/MFB	240 60075			AD 3729/SM		AD 70845/M8	240 50182
AD 12100/W8		AD 12202/W8	240 60168	AD 3880/X8		AD 38902/P8	240 30295
AD 12200/W8		AD 12252/W8	240 60173	AD 3890/X8		AD 38902/P8	240 30295
AD 12202/M8	240 60175			AD 3890/X25	240 20139	AD 38902/P8	240 30295
AD 12202/W8	240 60168			AD 3890/X8S		AD 38902/P8	240 30295
AD 12250/W8		AD 12252/W8	240 60173	AD 38901/P8		AD 38902/P8	240 30295
AD 12252/W8	240 60173			AD 38902/P8	240 30295	AD 40501/W4	240 30165
AD 1255/M7		AD 12100/M8	240 60059	AD 4050/W4		AD 40500/W8	240 40113
AD 1255/M8		AD 12202/M8	240 60175	AD 4050/W8		AD 40501/W4	240 30165
AD 1255/W8		AD 12202/W8	240 60168	AD 40500/W4			
AD 1256/M8				AD 40500/W8	240 40113		
AD 1256/W8				AD 40501/W4	240 30165		
AD 15240/W8	240 60083			AD 40501/W8	240 40146		
AD 20310/T4		AD 20370/T4	240 30294	AD 4070/Y4		AD 4072/X4	240 40083
AD 20310/T8		AD 20311/T8	240 20251	AD 4070/Y8		AD 4072/X8	240 40084
				AD 4072/X4	240 40083		

Replacementlist
Typenersatz-Liste
Liste de substitution

Vervangingslijst
Tabella di sostituzione
Vertailutaulukko

Lista de substituições
Lista de sustituciones
Ersättningslisten

		Replacement				Replacement	
Type no.	Code no.	Type no.	code no.	Type no.	Code no.	Type no.	code no.
AD 4072/X8	240 40084			AD 5081/M4		AD 50800/M4	240 50203
AD 4072/X15	240 40142			AD 5081/M8		AD 50800/M8	240 50204
AD 4072/X25	240 40086			AD 5081/X4		AD 50800/M4	240 50203
AD 4080/X4		AD 40880/X4	240 30246	AD 5081/X8		AD 50800/M8	240 50204
AD 4080/X8		AD 4085/X8	240 40078	AD 51501/W4	240 50246	AD 51502/WM4	240 50246
AD 4080/X15		AD 4072/X15	240 40142	AD 51502/WM4			
AD 4080/X25		AD 4072/X25	240 40086	AD 5780/M8		AD 36901/X8	240 20227
AD 4080/Z4		AD 40880/X4	240 30246	AD 5780/X8		AD 36901/X8	240 20227
AD 4080/Z8		AD 4085/X8	240 40078	AD 5790/M8		AD 36901/X8	240 20227
AD 4080/Z15		AD 4072/X15	240 40142	AD 5791/M8		AD 36901/X8	240 20227
AD 4085/X4		AD 40880/X4	240 30246	AD 6980/M4	240 20098		
AD 4085/X8	240 40078			AD 6980/M8	240 20099		
AD 4085/X15		AD 4072/X15	240 40142	AD 6980/X4		AD 6980/M4	240 20098
AD 40880/X4	240 30246			AD 6980/X8		AD 6980/MB	240 20099
AD 4090/X8		AD 4095/X8	240 40108	AD 70602/W4		AD 70652/W4	240 50224
AD 40900/M15		AD 44901/X15	240 40138	AD 70602/W8		AD 70654/W8	240 60187
AD 4095/X8	240 40108			AD 7061/M4		AD 70631/M4	240 60184
AD 44400/MK4	240 40147			AD 7061/M8		AD 70631/M8	240 60185
AD 4470/Y4		AD 4472/X4	240 40094	AD 70610/W4		AD 70654/W4	240 60186
AD 4470/Y15		AD 4472/X15	240 40096	AD 70611/W4		AD 70631/M4	240 60184
AD 4471/Y8		AD 4472/XB	240 40095	AD 7063/M4		AD 70631/M4	240 60184
AD 4472/X4	240 40094			AD 7063/M4S		AD 70631/M8	240 60185
AD 4472/X8	240 40095			AD 7063/M8		AD 70631/M4	240 60184
AD 4472/X15	240 40096			AD 70630/M4		AD 70631/M4	240 60184
AD 4481/X4K	240 40077			AD 70630/M8		AD 70631/M8	240 60185
AD 4485/X4		AD 4472/X4	240 40094	AD 70631/M4	240 60184		
AD 4485/X8		AD 4472/X8	240 40095	AD 70631/M8	240 60185		
AD 4485/X15		AD 4472/X15	240 40096	AD 7065/W8		AD 7066/W8	240 50093
AD 44901/M15		AD 44901/X15	240 40138	AD 70650/W4		AD 70652/W4	240 50224
AD 44901/X15	240 40138			AD 70650/W8		AD 70654/W8	240 60187
AD 46727/X4	240 20257			AD 70652/W4	240 50224		
AD 4680/M8		AD 4681/X8	240 20035	AD 70652/W8		AD 70654/W8	240 60187
AD 4680/MXB		AD 4681/X8	240 20035	AD 70654/W4	240 60186		
AD 4680/Z4		AD 46727/X4	240 20257	AD 70654/W8	240 60187		
AD 4680/Z8		AD 4681/X8	240 20035	AD 7066/MFB	240 50099		
AD 4680/Z15		AD 4686/X15	240 20191	AD 7066/W8	240 50093		
AD 46800/M4		AD 46727/X4	240 20257	AD 7080/M4		AD 70845/M4	240 50181
AD 46800/M4S		AD 46727/X4	240 20257	AD 7080/M8		AD 70845/M8	240 50182
AD 4681/M8		AD 4681/X8	240 20035	AD 7080/X4		AD 70845/M4	240 50181
AD 4681/P8		AD 4681/X8	240 20035	AD 7080/X8		AD 70845/M8	240 50182
AD 4681/X4		AD 46727/X4	240 20257	AD 70801/W8	240 50177		
AD 4681/X8	240 20035			AD 70803/W8		AD 70801/W8	240 50177
AD 4681/X8K		AD 4681/X8	240 20035	AD 70845/M4	240 50181		
AD 4681/X15		AD 4686/X15	240 20191	AD 70845/M8	240 50182		
AD 4681/X25		AD 46951/X25S	240 20242	AD 70850/M4		AD 70845/M4	240 50181
AD 4686/X4		AD 46727/X4	240 20257	AD 70850/M8		AD 70845/M8	240 50182
AD 4686/X15	240 20191			AD 7090/M8		AD 70845/M8	240 50182
AD 4686/X25		AD 46951/X25S	240 20242	AD 7091/M4		AD 70845/M4	240 50181
AD 46900/MB	240 20222			AD 7091/M8		AD 70845/M8	240 50182
AD 46900/M15S	240 20223			AD 7091/X4		AD 70845/M4	240 50181
AD 4691/M8		AD 46900/M8	240 20222	AD 7091/X8		AD 70845/M8	240 50182
AD 4691/M25		AD 46951/X25S	240 20242	AD 80110/W6	240 60155		
AD 4691/X8		AD 46900/M8	240 20222	AD 80400/W8	240 60189		
AD 4691/X15		AD 46900/M15S	240 20223	AD 80405/W8		AD 80400/W8	240 60189
AD 4691/X25		AD 46951/X25S	240 20242	AD 80600/W4		AD 80652/W4	240 60103
AD 4692/X25	240 20144			AD 80601/W4		AD 80652/W4	240 60103
AD 46951/X25S	240 20242			AD 80601/W8		AD 80602/W8	240 60104
AD 4696/X25		AD 46951/X25S	240 20242	AD 80602/W4		AD 80622/W4	240 60288
AD 4890/X15		AD 48901/X15	240 20217	AD 80602/W8	240 60104		
AD 48900/X15		AD 48901/X15	240 20217	AD 80603/W4		AD 80652/W4	240 60103
AD 48901/X15	240 20217			AD 80603/W8		AD 80606/W8G	240 60181
AD 4891/X15		AD 48901/X15	240 20217	AD 80606/W8G	240 60181		
AD 5060/SO4		AD 50600/SQ4	240 50212	AD 8061/W6	240 60066		
AD 5060/SQB		AD 50600/SQ8	240 50213	AD 80622/W4	240 60288		
AD 50600/SQ4	240 50212			AD 80622/W8	240 60287		
AD 50600/SQ8	240 50213			AD 80626/W4	240 60283		
AD 5062/SQB		AD 50600/SQ8	240 50213	AD 80626/W8	240 60282		
AD 5080/M4		AD 50800/M4	240 50203	AD 80650/W4		AD 80652/W4	240 60103
AD 5080/M8		AD 50800/M8	240 50204	AD 80651/W4		AD 80652/W4	240 60103
AD 5080/X4		AD 50800/M4	240 50203	AD 80652/W4	240 60103		
AD 5080/X8		AD 50800/M8	240 50204	AD 80652/W8	240 60101	AD 80626/W8	240 60283
AD 5080/X25	240 50062			AD 80656/W4		AD 80652/W4	240 60103
AD 5080/Z4		AD 50800/M4	240 50203	OO 80667/W8	240 60286	AD 80110/W6	240 60155
AD 5080/Z8		AD 50800/M8	240 50204	AD 80672/W4		AD 80680/W8	240 60137
AD 50800/M4	240 50203			AD 80672/W8		AD 80680/W8	240 60137
AD 50800/M8	240 50204			AD 80680/W8	240 60137	9710/M8	240 60069



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