



### 2. How to add d&b families into your project

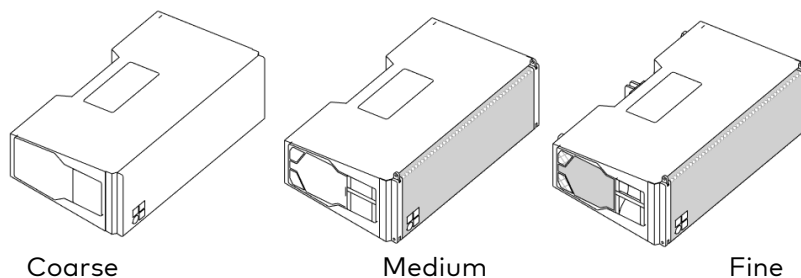
1. Open your project.
2. Open the *d&b audiotechnik Revit Families SL-Series.rvt*
3. In this project, select a family.
4. In the *Modify* menu run *Edit Family*.  
This opens the Family Editor.
5. From here, run *Load into Project* (or *Load into Project and Close*) and select your project.  
The family is available now in the project browser of your project under *Families > Communication Devices*. The family types can be dragged into your drawing area.  
The nested families are also automatically loaded into your project and show up in the project browser.
6. You can close the family you have opened. You do not need to save it, as all families and types are still available in the *d&b audiotechnik Revit Families SL-Series.rvt*.

#### Notes:

We do not recommend to run "Copy and Paste" from project to project, as this will copy only the selected type into your project. You may miss additional types in a later phase.

### 3. Detail Levels

The d&b audiotechnik families support the Detail Levels Coarse, Medium and Fine.



### 4. Materials

d&b audiotechnik Materials are already set in the *Properties* of the families. The materials are already predefined for visualization in Revit.

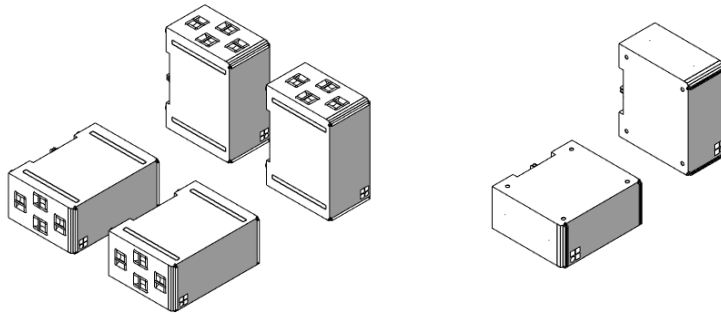
Refer to website or manual to check if Special Colour versions are available. d&b colours the products according to the RAL table. Parts that will be painted are the cabinet, grill and front rigging (d&b Metal Black). The *d&b always black* Material is used for parts of the components, which you cannot order in a different color.

The SL-Series is using standard Revit materials. In case you want to create custom materials, duplicate the materials and material assets for enclosure, grill and paint, and assign it to the properties of a speaker or subwoofer. You can use the "Tint" option in the Appearance tab of the Materials dialog to define custom colours.

Materials and Finishes	
Enclosure Material	d&b Paint Black
Grill Material	d&b Metal Grill Black
Metal Material	d&b Metal Black

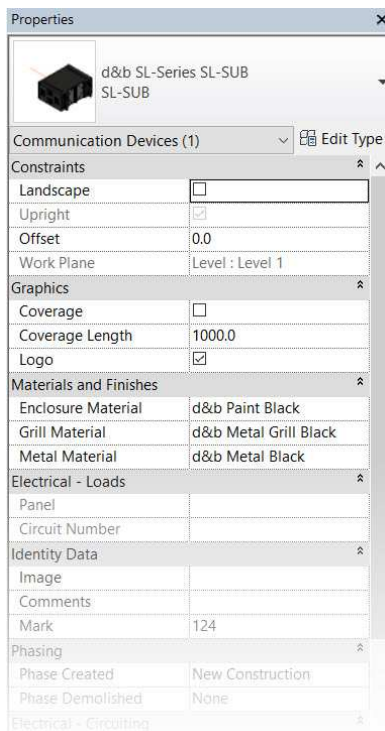
### 5. Subwoofer families

The subwoofer families are usually placed on a level. Use the Offset parameter in the Properties to set the component on a specific height. The "Landscape" and "Upright" parameters place the subwoofers in horizontal or vertical orientation.



SUBs with "Landscape" and "Upright" orientation

### 6. Subwoofer families properties



#### Constraints

The "Landscape" and "Upright" parameters place the subwoofers in horizontal or vertical orientation.

#### Graphics

Shows the coverage lines and the length of the Coverage lines.

Further the d&b Logo can be deactivated.

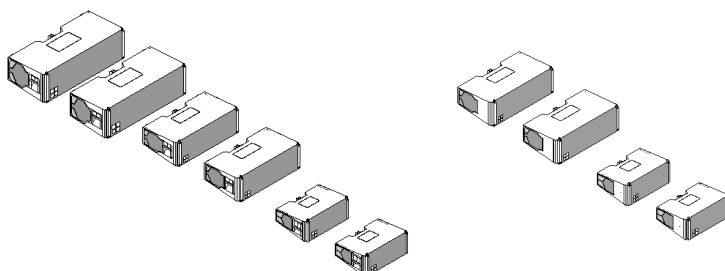
#### Materials

Assignment of d&b materials for the different components of the families.

For custom materials, note the chapter 4. Materials

### 7. Loudspeaker families

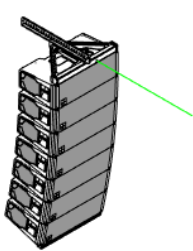
The TOPs of the SL-Series are integrated in the line array families. All loudspeaker properties can be set in the line array families.



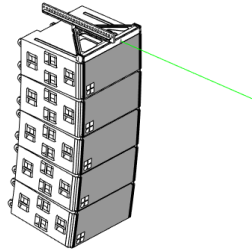
GSL, KSL, XSL, KSLi, XSLi TOPs

## **8. Line array families**

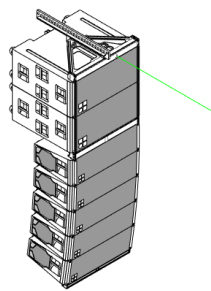
Instead of combining single speakers or subs manually to a line array in a Revit project (which is likely a cumbersome task), we have developed predefined line array families. They consist of nested families such as speakers, subs and frames. As they are nested families, they show up in the schedules. Various property settings allow to set up the line arrays. There are separate line array families for mobile and installation. The number of subs and speakers and their angles can be set in the properties. In general, we differ between the following line arrays:



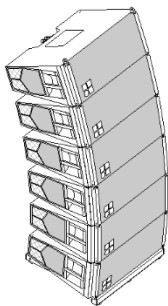
Flown array  
TOPs



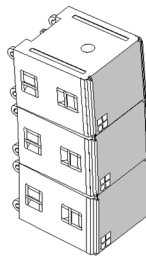
Flown array  
SUBSs



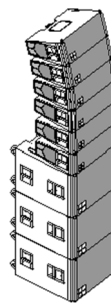
Flown array  
TOPs & SUBS



Ground stacked array  
TOPs



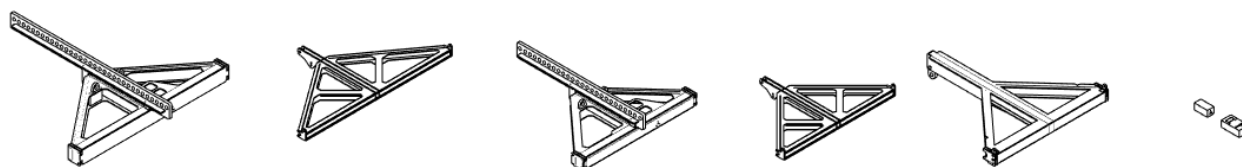
Ground stacked array  
SUBS



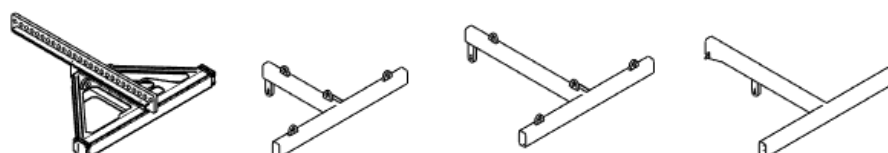
Ground stacked array  
TOPs & SUBS

The SL-Series supports flown and ground stacked arrays for KSL, GSL, XSL, KSLi, XSLi

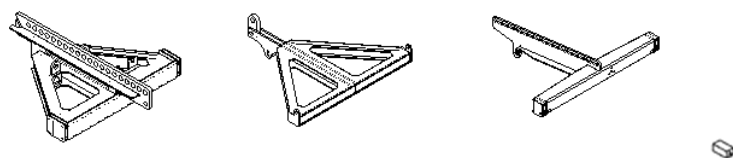
## 8. Accessories



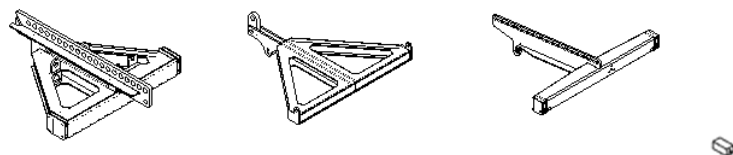
KSL Integrated accessories



KSLi Integrated accessories



XSL Integrated accessories



XSLi Integrated accessories

## 9. KSL, XSL Line array families properties

The screenshot shows a sub & loudspeaker array. Sub arrays and Loudspeaker arrays have slightly different properties.

Properties

d&b SL-Series GSL Flown Array - Loudspeaker

Communication Devices (1) Edit Type

Constraints

Level Level 1

Host Level : Level 1

Offset 4000.0

Moves With Nearby Ele... ☐

Construction

Load Beam Standard ☒

Load Beam Front ☐

Compression Mode ☒

Number of Loudspeakers 5

1 Loudspeaker<Data D... GSL8

2 Loudspeaker<Data D... GSL8

3 Loudspeaker<Data D... GSL8

4 Loudspeaker<Data D... GSL8

5 Loudspeaker<Data D... GSL8

6 Loudspeaker<Data D... GSL8

7 Loudspeaker<Data D... GSL8

8 Loudspeaker<Data D... GSL8

9 Loudspeaker<Data D... GSL8

10 Loudspeaker<Data ... GSL8

11 Loudspeaker<Data ... GSL8

Graphics

Coverage ☐

Coverage Length 1000.0

ArraySight Laser ☒

Laser Length 1500.0

Logo ☒

Materials and Finishes

Accessories Material d&b Metal Black

Enclosure Material d&b Paint Black

Grill Material d&b Metal Grill Black

Metal Material d&b Metal Black

Electrical - Loads

Panel

Circuit Number

Dimensions

Frame Angle 0.000°

Splay Angle 1 0.000°

Splay Angle 2 2.000°

Splay Angle 3 2.000°

Splay Angle 4 2.000°

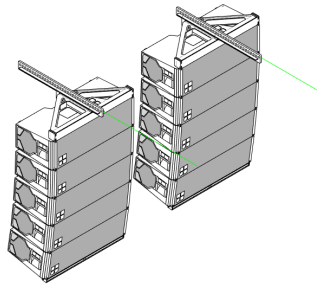
Splay Angle 5 2.000°

Splay Angle 6 2.000°

The Offset value defines the bottom height of the top frame.

### Construction

Load Beam Standard / Load Beam Front  
Defines the position of the Load Beam



Compression Frame  
Displays / hides the Compression Frame

Number of Subwoofers and Loudspeakers  
**Please observe the corresponding rigging manuals for safe use and check the load limits using ArrayCalc!**

1 Loudspeaker	[GSL8 or GSL12]	[KSL8 or KSL12]
2 Loudspeaker	[GSL8 or GSL12]	[KSL8 or KSL12]
3 Loudspeaker	[GSL8 or GSL12]	[KSL8 or KSL12]

Defines the use of GSL8/GSL12 or KSL8/KSL12 speakers, the prefix number stands for the position, measured from top for flown arrays.

### Graphics

Shows the coverage lines and the length of the Coverage lines. Additionally, the integrated ArraySight Laser can be set and the d&b Logo can be deactivated.

### Materials

Assignment of d&b materials for the different components of the families.

### ArraySight Laser / Laser Length

Shows the integrated array sight Sender Unit and defines the laser line length.

### Dimensions

Here you set the angles between the SUBs and TOPs. Make sure that you set the values according the d&b audio installation manuals, as Revit would allow any values!

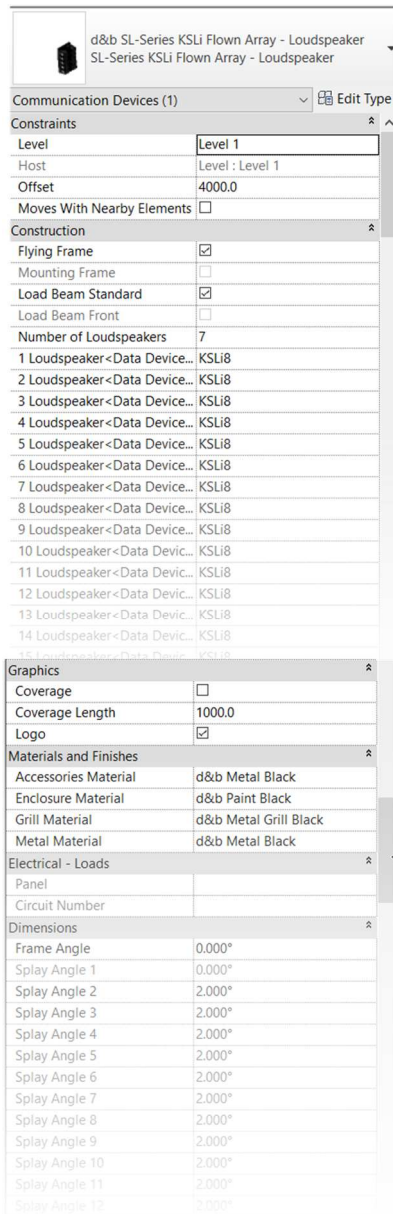
SUBs: 0° or 2.5°

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GSL8, GSL12, KSL8, KSL12: 0°;1°;2°;...;7°  
XSL8, XSL12: 0°;1°;2°;...;14°

### 10. KSLi, XSLi Line array families properties

The screenshot shows a sub & loudspeaker array. Sub arrays and Loudspeaker arrays have slightly different properties.

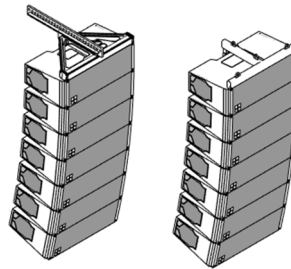


The Offset value defines the bottom height of the top frame.

#### Construction

##### Flying Frame

Shows the Flying Frame instead of the Mounting Frame



Load Beam Standard / Load Beam Front  
Defines the position of the Load Beam

Number of Subwoofers and Loudspeakers

**Please observe the corresponding rigging manuals for safe use and check the load limits using ArrayCalc!**

1 Loudspeaker	[KSLi8 or KSLi12]
2 Loudspeaker	[KSLi8 or KSLi12]
3 Loudspeaker	[KSLi8 or KSLi12]

Defines the use of KSLi8/KSLi12 sspeakers, the prefix number stands for the position, measured from top for flown arrays.

#### Graphics

Shows the coverage lines and the length of the Coverage lines.

#### Materials

Assignment of d&b materials for the different components of the families.

#### ArraySight Laser / Laser Length

Shows the integrated array sight Sender Unit and defines the laser line length (optionally for XSLi only).

#### Dimensions

Here you set the angles between the SUBs and TOPs. Make sure that you set the values according the d&b audio installation manuals, as Revit would allow any values!

SUBs: 0° or 2.0°

KSLi8, KSLi12: 0°;1°;2°;...;7°

XSLi8, XSLi12: 0°;1°;2°;...;14°



## 11. Type properties

Additional data is integrated in the type properties of the families and can be schedules, such as *Part Number* and the properties under the *Data* group.

Type Properties
✕

Family: d&b SL-Series GSL Load...  
Type: GSL8 Duplicate...  
Rename...

Type Parameters

Parameter	Value
<b>Constraints</b>	
Default Elevation	0.0
<b>Dimensions</b>	
Height	391.0
Width	1300.0
Depth	627.0
<b>Identity Data</b>	
Part Number	Z0750
Support Email	support@dbaudio.com
Support Phone	+49 7191 9669-0
Type Image	
Keynote	
Model	GSL8
Manufacturer	d&b audiotechnik
URL	http://www.dbaudio.com/
<b>Type Comments</b>	
Description	Line array module specifically designed fo
Assembly Code	
Cost	
Assembly Description	
<b>Type Mark</b>	
OmniClass Number	23.85.10.11.14.14.14
OmniClass Title	Loudspeakers
Code Name	
<b>Data</b>	
Frequency Range Low (-5 dB Standard)	45.00 Hz
Frequency Range High (-5 dB Standard)	18000.00 Hz
Max. SPL (1m, Free Field) with D80	150
SPL Max	150
SPL Stimulus	Broadband signal IEC 60268
Cabinets per D80	2 (AP)
Power Handling Capacity Peak 10 ms	3200.00 W
Power Handling Capacity RMS	800.00 W
Coverage Horizontal	80.000°
Splay Angle Maximum	7.000°
Splay Angle Minimum	0.000°
Weight	80.000 kg
LF Front Diameter	14"
LF Front Quantity	2
LF Rear Diameter	10"
LF Rear Quantity	2
MF Diameter	10"
MF Quantity	1
HF Diameter	3/4"
HF Quantity	3
HF Exit	1.4"
Connections	1xNLT4F
Cabinet Materials	Marine Plywood
Cost MSRP	0.00
Cost Project	0.00

OK Cancel Apply Help



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## 11. Schedules

### Note:

The *Communication Device Schedule* in *d&b audiotechnik Revit Families SL-Series.rvt*. It counts the components including their data.

A	B	C	D	E	F	G	H
v	Type	Weight	Connections	Manufacturer	Model	Part Number	Dr
d&b SL-Series GSL Flying Fram	GSL Flying Frame	44.00 kg		d&b audiotechnik	GSL Flying Frame	25701	GSL Flying Frame
d&b SL-Series GSL Compressio	GSL Compression Frame	18.60 kg		d&b audiotechnik	GSL Compression Frame	25703	GSL Compression Frame
d&b SL-Series GSL Load Beam	GSL Load Beam	29.00 kg		d&b audiotechnik	GSL Load Beam	25702	GSL Load Beam
d&b SL-Series Array/Sight Sende	Array/Sight Sender Unit			d&b audiotechnik	Array/Sight Sender Unit	25711	Array/Sight Sender Unit
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series G-SUB	SL G-SUB	138.00 kg	1xNLT4F	d&b audiotechnik	SL G-SUB	20761	Cardioid subwoofers to compliment
d&b SL-Series Ground Stacked	SL-Series Ground Stacked			d&b audiotechnik	Ground Staked Array with max. 3 SL SUB Subwoofer		
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series Flown Array - Su	SL-Series Flown Array - S			d&b audiotechnik	Flown Array with max. 14 SL SUB Subwoofers		
d&b SL-Series GSL Flying Frame	GSL Flying Frame	44.00 kg		d&b audiotechnik	GSL Flying Frame	25701	GSL Flying Frame
d&b SL-Series Array/Sight Sende	Array/Sight Sender Unit			d&b audiotechnik	Array/Sight Sender Unit	25711	Array/Sight Sender Unit
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series GSL Load Beam	GSL Load Beam	29.00 kg	1xNLT4F	d&b audiotechnik	GSL Load Beam	25702	GSL Load Beam
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series SL-SUB	SL-SUB	130.00 kg	1xNLT4F	d&b audiotechnik	SL SUB	20760	Cardioid subwoofers to compliment
d&b SL-Series GSL Flown Array	SL-Series GSL Flown Arr			d&b audiotechnik	Flown Array with max. 24 GSL8/GSL12 Loudspeaker		
d&b SL-Series GSL Flying Frame	GSL Flying Frame	44.00 kg		d&b audiotechnik	GSL Flying Frame	25701	GSL Flying Frame
d&b SL-Series GSL	GSL8	80.00 kg	1xNLT4F	d&b audiotechnik	GSL8	20750	Line array module specifically desig
d&b SL-Series GSL	GSL8	80.00 kg	1xNLT4F	d&b audiotechnik	GSL8	20750	Line array module specifically desig
d&b SL-Series GSL	GSL8	80.00 kg	1xNLT4F	d&b audiotechnik	GSL8	20750	Line array module specifically desig
d&b SL-Series GSL	GSL8	80.00 kg	1xNLT4F	d&b audiotechnik	GSL8	20750	Line array module specifically desig
d&b SL-Series GSL	GSL8	80.00 kg	1xNLT4F	d&b audiotechnik	GSL8	20750	Line array module specifically desig
d&b SL-Series Array/Sight Sende	Array/Sight Sender Unit			d&b audiotechnik	Array/Sight Sender Unit	25711	Array/Sight Sender Unit
d&b SL-Series GSL Load Beam	GSL Load Beam	29.00 kg		d&b audiotechnik	GSL Load Beam	25702	GSL Load Beam
d&b SL-Series GSL	GSL8	80.00 kg	1xNLT4F	d&b audiotechnik	GSL8	20750	Line array module specifically desig
d&b SL-Series GSL	GSL12	80.00 kg	1xNLT4F	d&b audiotechnik	GSL12	20751	Line array module specifically desig
d&b SL-Series GSL	GSL8	80.00 kg	1xNLT4F	d&b audiotechnik	GSL8	20750	Line array module specifically desig
d&b SL-Series KSL	KSL8	58.00 kg	NLT4 F/M	d&b audiotechnik	KSL8	20780	Line array module for medium to lar
d&b SL-Series KSL	KSL12	58.00 kg	NLT4 F/M	d&b audiotechnik	KSL12	20781	Line array module for medium to lar
d&b SL-Series KSL Flying Fram	KSL Flying Frame	30.30 kg		d&b audiotechnik	KSL Flying Frame	25722	KSL Flying Frame
d&b SL-Series KSL Load Beam	KSL Load Beam	21.00 kg		d&b audiotechnik	KSL Load Beam	25723	KSL Load Beam
d&b SL-Series KSL Compressio	KSL Compression Frame	16.00 kg		d&b audiotechnik	KSL Compression Frame	25725	KSL Compression Frame
d&b SL-Series KSL Flown Array	SL-Series KSL Flown Arra			d&b audiotechnik	Flown Array with max. 24 KSL8/KSL12 Loudspeaker		
d&b SL-Series KSL Flying Frame	KSL Flying Frame	30.30 kg		d&b audiotechnik	KSL Flying Frame	25722	KSL Flying Frame
d&b SL-Series KSL	KSL8	58.00 kg	NLT4 F/M	d&b audiotechnik	KSL8	20780	Line array module for medium to lar

## 12. Tags

You can use the integrated d&b annotation tag to automatically annotate the types with part number or Type name.



Z0750 GSL8



Z0751 GSL12



Z0780 KSL8



Z0781 KSL12



Z0760 SL-SUB



Z0761 SL G-SUB