Older Surface Mount Components in Advanced Design System - ADS

Even though these libraries are fairly old, there are still many components that are useful. This will allow

you to simulate more realistic circuits by using component S-parameters.

Step 1. Select Manage Favorite Design Kits:



Other ADS examples can be found at **BBTLine**

Step 2. Add Zipped Design Kit:

N	ame	Version	In Current Workspace	Library Definition File
MRF6VF	3091N	V_Level1_Rev0_DK		\$HOME\MRF6VP3091N_Level1_Rev0_DK\lib.defs
RF_Pow	er_ADS	er_ADS_DesignKit=		C:\derbyshire\BBTLine\Amplifier_Project\RF_POW.
MRF6VF	3091N	N_Level1_Rev0_DK		C:\derbyshire\BBTLine\Amplifier_Project\MRF6VP
Microw	ave_Tra	None		\$HOME\Microwave_Transistors_vendor_kit\lib.defs
RF_Tran	sistors	None		\$HOME\RF_Transistors_vendor_kit\lib.defs
Polyfet_	Non_Li	st_Non_Linear_201		C:\derbyshire\PolyFET\Polyfet_Non_Linear_2014\P.
MDLXQ	orvoGaN	DLXQorvoGaN=v2		C:\Modelithics\Library\MDLX_Qorvo_GaN_Library
muRata	LibWeb	uRataLibWeb=5.4		C:\derbyshire\ADS2015_01_Stuff\murata_lib_ads20
AVX_RF	_Comp	_RF_Components:		C:\derbyshire\AVX_ADS\ADSNew\AVX_RF_Compo.
RF_Pass	ive_SM	None		C:\derbyshire\ADS2016_01_Stuff\RF_Passive_SMT

Step 3. Navigate to ADS install

directory...oalibs...componentLib..."RF_Passive_SMT_vendor_kit.7z" file



Step 4. Setup a directory anywhere with anyname (to unzip the file in):



Step 5. Final setup to include the library in the project:

NameVersionIscuret WorkspaceMRF0P301MaQuert RoutGuert WorkspaceMRF0P301MaQuert RoutQuert RoutQuert RoutRF0P301MaQuert RoutQuert RoutQuert RoutMR60701maQuert RoutQuert RoutQuert RoutMR07021maQuert RoutQuert RoutQuert RoutMR07031maQuert RoutQuert RoutRoutMR07031maQuert RoutQuert Rout				
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RF_Power_ADS_ er_ADS_DesignKit: C\derbyshire\BBTLine\Amplifier_Project\RF_POWER_ADS2016_DK\RF_Power_ADS_DesignKit_ads2016p1p8p1\lib.defs MRF6VP3091N_ V_LevelI_Rev0_DK C\derbyshire\BBTLine\Amplifier_Project\RF6VP3091N_MDL_ADS\MRF6VP3091N_LevelI_Rev0_DK\lib.defs MRrcowave_Tra None SHOME\Microwave_Transistors_vendor_kit\lib.defs RF_Transistors None SHOME\RF_Transistors_vendor_kit\lib.defs Polyfet_Non_Lin t.Non_Linear_201 C\derbyshire\Polyfet_Non_Linear_2014\Polyfet_Non_Linear_2014\lib.defs MDLXQorvoGaN DLXQorvoGaN=v2 C\derbyshire\ADS2015_01_Stuff\murata_lib.ads2011later_54et\lib.defs MXRF_Comp. RF_Components C\derbyshire\ADS2016_01_Stuff\RF_Passive_SMT_vendor_kit\lib.defs RF_Passive_SM None SHOME\temp_directory\RF_Passive_SMT_vendor_kit\lib.defs RF_Passive_SM None SHOME\temp_directory\RF_Passive_SMT_vendor_kit\lib.defs	MRF6VP3091N	V_Level1_Rev0_DK		SHOME\MRF6VP3091N_Level1_Rev0_DK\lib.defs
MREFOVP3091N	RF_Power_ADS	er_ADS_DesignKit=		$\label{eq:c:derbyshire} BBTLine \mbox{Amplifier} Project \mbox{RF}_POWER_ADS2016_DK \mbox{RF}_Power_ADS_DesignKit_ads2016p1p8p1 \lib.defs} table \mbox{BBTLine} \mbox{Amplifier} Amplifie$
Microwave_Tra None Image: SHOME\Microwave_Transistors_vendor_kit\lib.defs RF_Transistors	MRF6VP3091N	N_Level1_Rev0_DK		$\label{eq:c:derbyshire} BBTLine \mbox{Amplifier_Project} \mbox{MRF6VP3091N_MDL_ADS} \mbox{MRF6VP3091N_Level1_Rev0_DK} \mbox{lib.defs} \mbox{defs} \m$
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Polyfet_Non_Linear_201 Image: C:\derbyshire\Polyfet_Non_Linear_2014\Polyfet_Non_Linear_2014\Bib.defs MDLXQorvoGaN=v2 Image: C:\derbyshire\Polyfet_Non_Linear_2014\Bib.defs muRataLibWeb vuRataLibWeb=5.4 Image: C:\derbyshire\ADS2015_01_stuff\murata_lib_ads2011later_54et\Bib.defs AVX_RF_Components Image: C:\derbyshire\ADS2015_01_stuff\murata_lib_ads2011later_54et\Bib.defs RI_Passive_SM None Image: C:\derbyshire\ADS2016_01_stuff\RF_Passive_SMT_vendor_kit\Bib.defs RF_Passive_SM None Image: C:\derbyshire\ADS2016_01_stuff\RF_Passive_SMT_vendor_kit\Bib.defs VEX_Passive_SM None Image: C:\derbyshire\ADS2016_01_stuff\RF_Passive_SMT_vendor_kit\Bib.defs	RF_Transistors	None		\$HOME\RF_Transistors_vendor_kit\lib.defs
MDLXQorvoGaN DLXQorvoGaN=v2 C:\Modelithics\Library\MDLX_Qorvo_GaN_Library_dk\lib.defs muRataLibWeb uRataLibWeb=5.4 C:\derbyshire\ADS2D15_01_stuff\murata_lib_ads2D11later_54et\lib.defs AVX_RF_Comp RF_Components C:\derbyshire\ADS\ADS\New\AVX_RF_Components\lib.defs RI_Passive_SM None C:\derbyshire\ADS2D16_01_stuff\RF_Passive_SMT_vendor_kit\lib.defs RF_Passive_SM None SHOME\temp_directory\RF_Passive_SMT_vendor_kit\lib.defs	Polyfet_Non_Li	:t_Non_Linear_201		C:\derbyshire\PolyFET\Polyfet_Non_Linear_2014\Polyfet_Non_Linear_2014\lib.defs
muRataLibWeb nuRataLibWeb=5.4 C:\derbyshire\ADS2015_01_Stuff\murata_lib_ads2011later_54et\lib.defs AVX_RF_Components: RF_Components: C:\derbyshire\ADS2016_01_Stuff\RF_Passive_SMT_vendor_kit\lib.defs Ri_Passive_SM None C:\derbyshire\ADS2016_01_Stuff\RF_Passive_SMT_vendor_kit\lib.defs RF_Passive_SM None SHOME\temp_directory\RF_Passive_SMT_vendor_kit\lib.defs	MDLXQorvoGaN	DLXQorvoGaN=v2		C:\Modelithics\Library\MDLX_Qorvo_GaN_Library_dk\lib.defs
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None C:\derbyshire\ADS2016_01_Stuff\RF_Passive_SMT_vendor_kit\lib.defs RF_Passive_SM None SHOME\temp_directory\RF_Passive_SMT_vendor_kit\lib.defs	AVX_RF_Comp	_RF_Components:		C:\derbyshire\AVX_ADS\ADSNew\AVX_RF_Components\lib.defs
RF_Passive_SM None SHOME\temp_directory\RF_Passive_SMT_vendor_kit\lib.defs	RPassive_SM	None		C:\derbyshire\ADS2016_01_Stuff\RF_Passive_SMT_vendor_kit\lib.defs
	RF_Passive_SM	None		SHOME\temp_directory\RF_Passive_SMT_vendor_kit\lib.defs

Step 6. Open a new schematic, press the library icon and navigate to the

"RF_Passive_SMT" menu...now, you can drag and drop these components into your

schematic:

