

SPICE Model

Partners in RF & Microwave



MA4P7104-1072 rev B Jan 21, 2020

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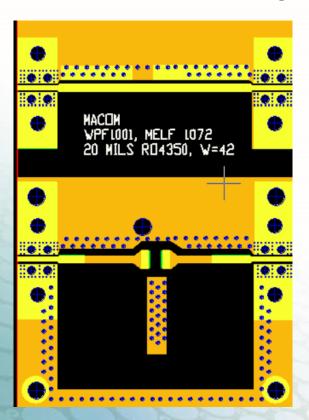


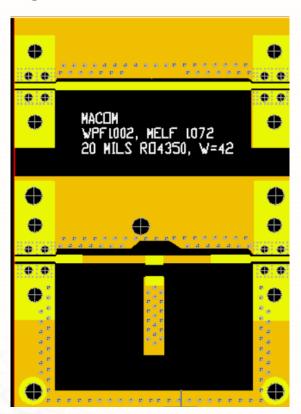
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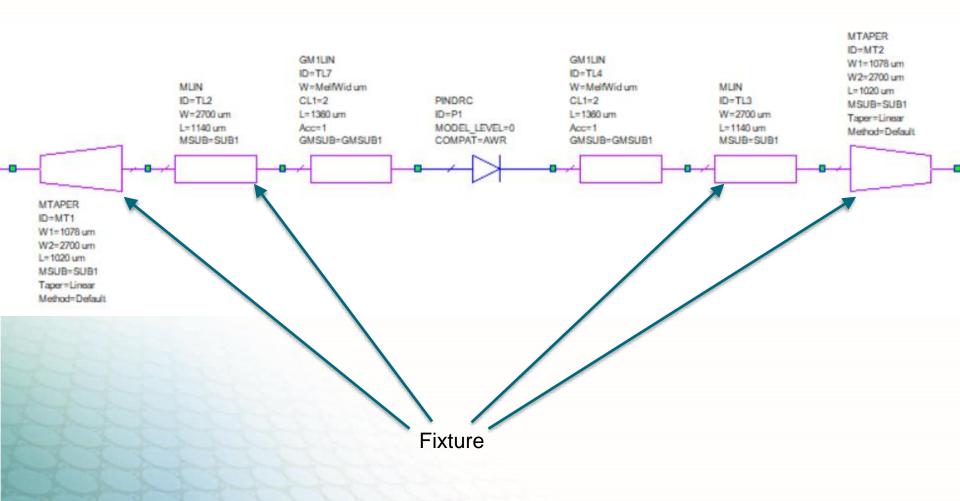
- 20 mils Rogers RO4350 with 1 oz copper
- S-parameters measured with port extensions such that the reference plane is set to the beginning of the transmission line taper for the series MELF and set to the edge of the package for the shunt MELF





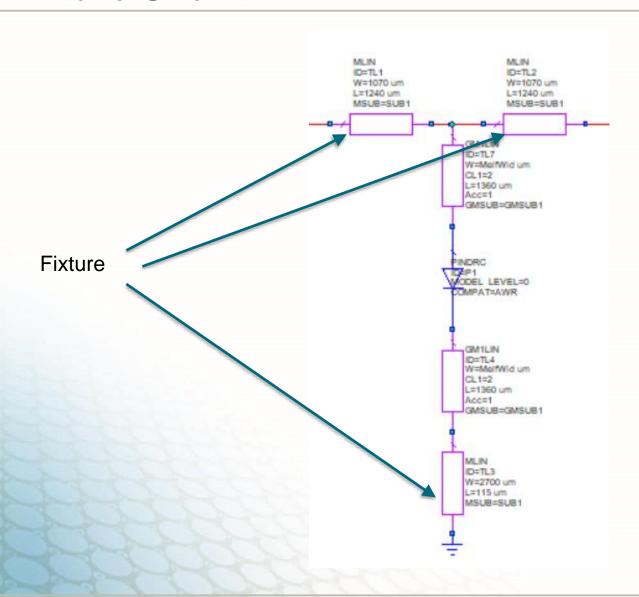
Test Fixture Series





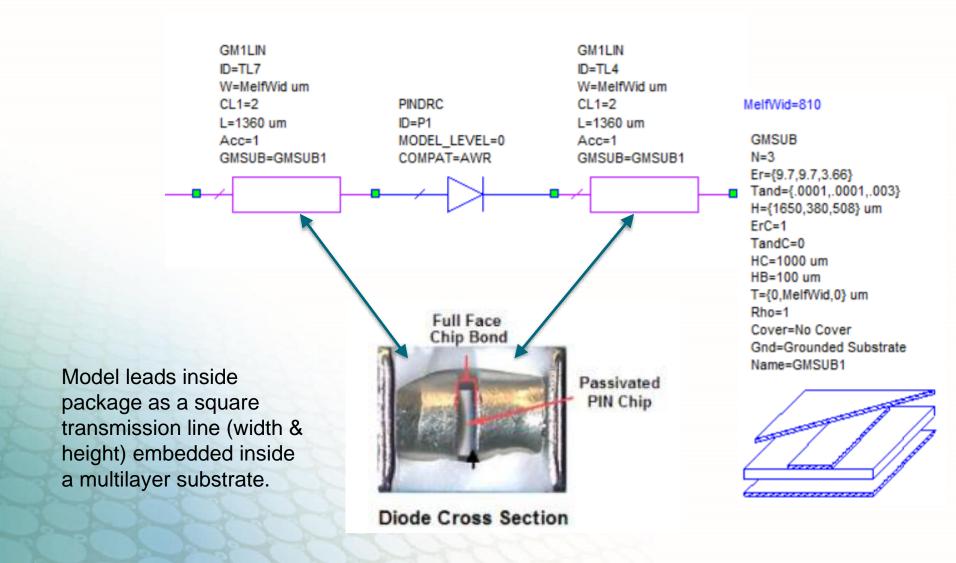
Test Fixture Shunt





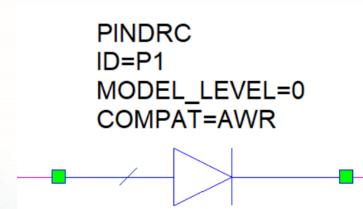
Package









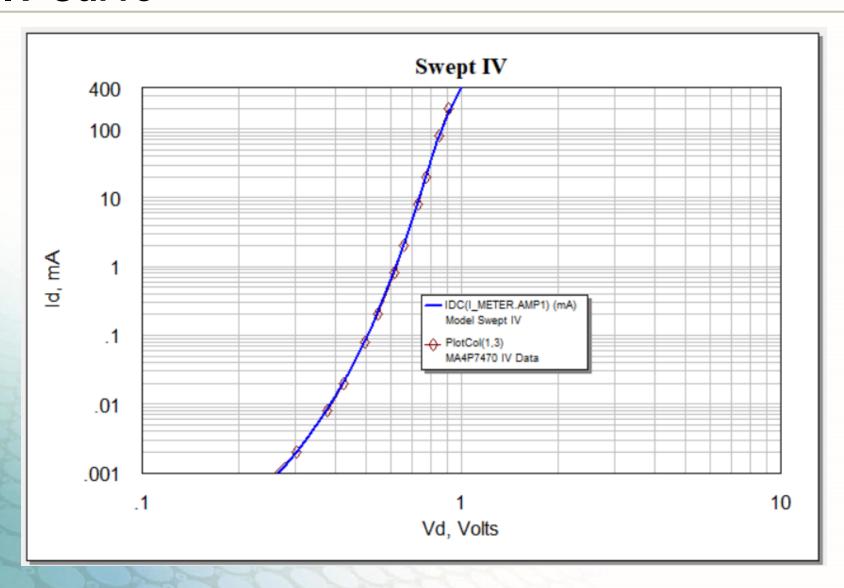


ID	P1	
IS	Is	mA
IKNEE	Iknee	mA
N	Npin	
RLIM	Rlim	Ohm
REPI	Repi	Ohm
CJ	Cj	pF
CPKG	Cpkg	pF
TAU	LT	ns
W	W	
В	3	
LBOND	Lpkg	nH
TNOM	26.85	DegC
TEMP	26.85	DegC
AREA	1	
NFLAG	Noise Off	
MODEL_LEVEL	0	
COMPAT	AWR	

Is=7.3e-06 Iknee=55 Npin=0.98 Repi=20000 LT=6000 W=140 Cj=0.2 Rlim=0.24 Cpkg=0.3 Lpkg=0.19

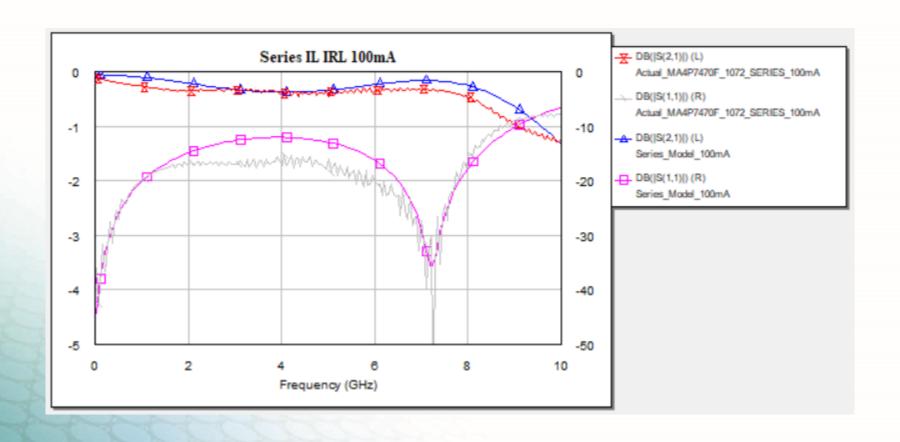
IV Curve





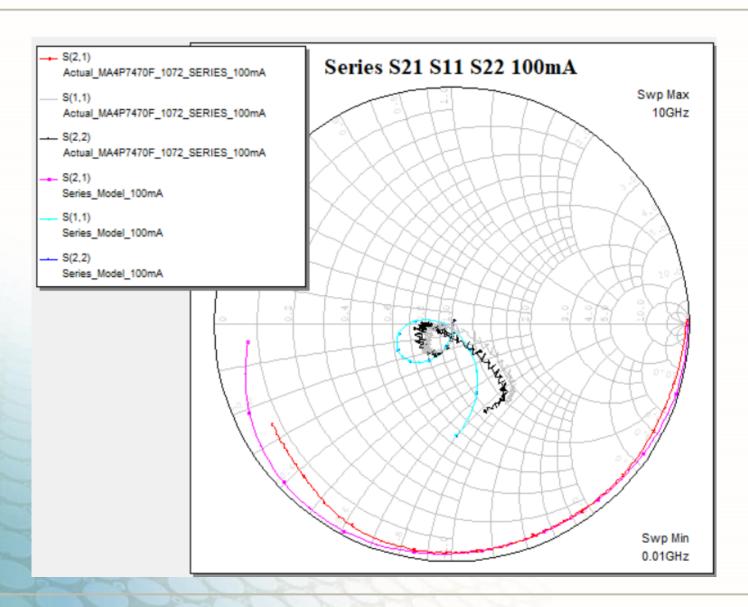
Series 100 mA





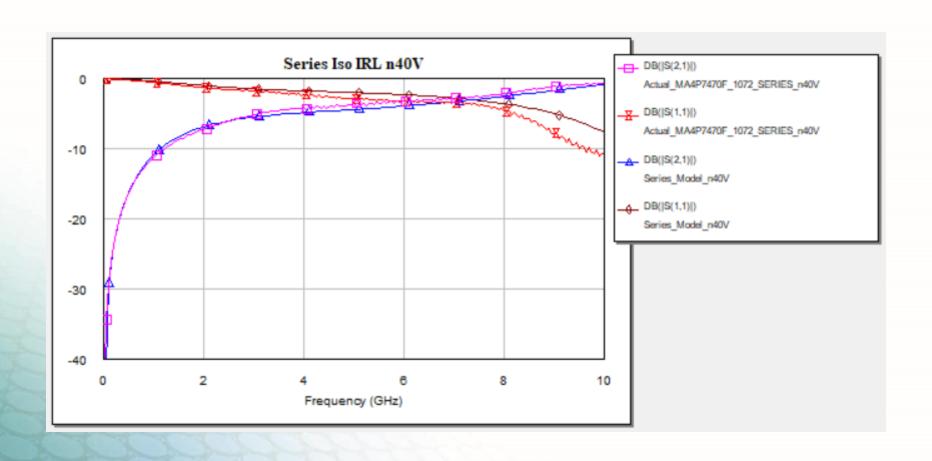
Series 100 mA





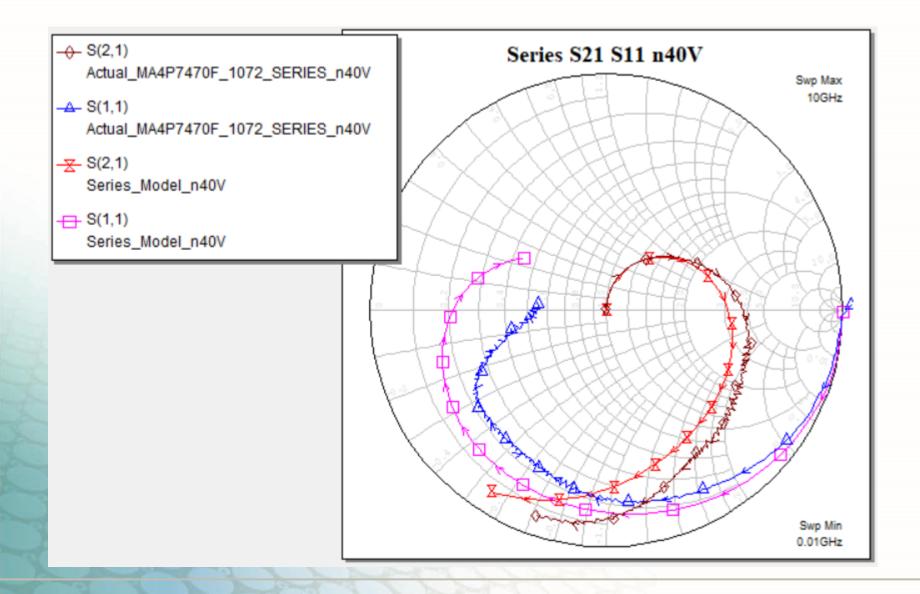
Series -40 V





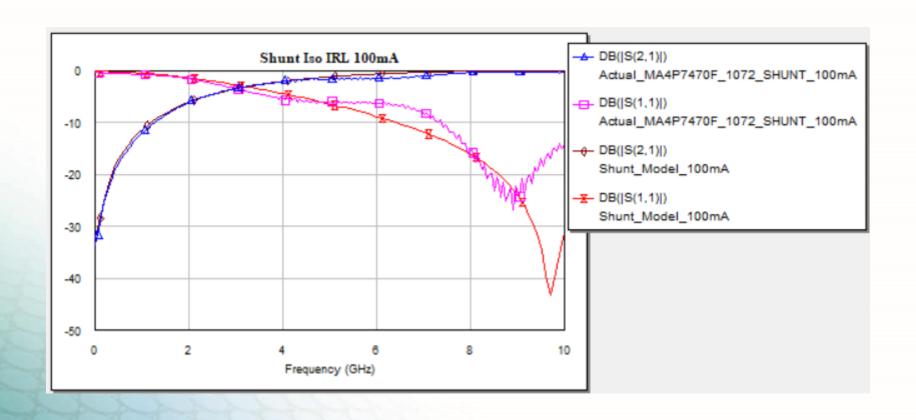
Series -40 V





Shunt 100 mA





Shunt 100 mA

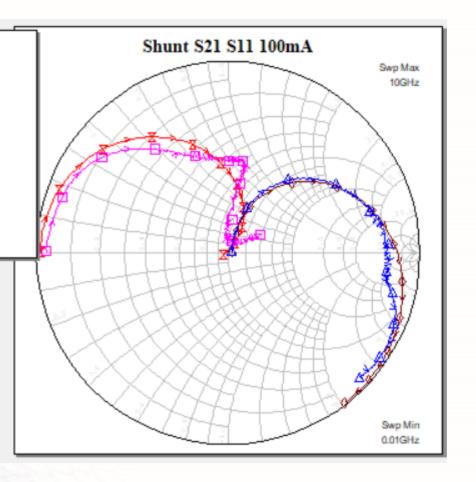


-A- S(2,1)
Actual_MA4P7470F_1072_SHUNT_100mA

---- S(1,1)
Actual_MA4P7470F_1072_SHUNT_100mA

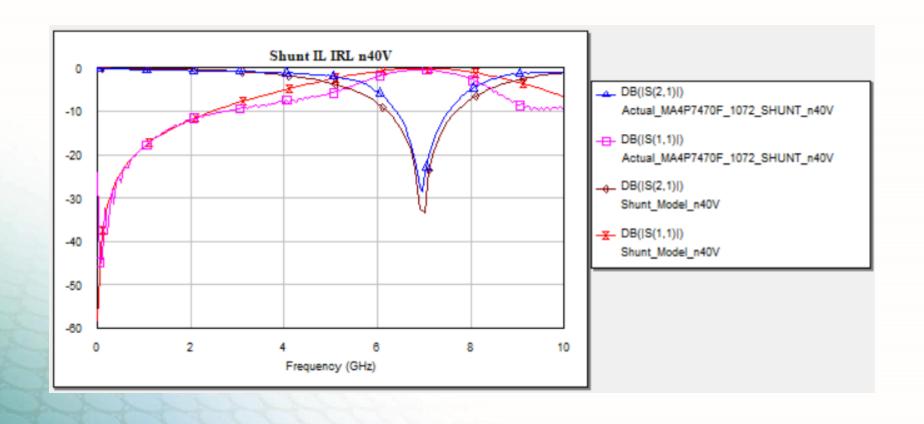
→ S(2,1)
Shunt_Model_100mA

S(1,1) Shunt_Model_100mA



Shunt -40 V





Shunt -40 V



