TYPICAL CHARACTERISTICS
ON
FD-0518-10-3D1G3D5G

PMI MODEL: FD-0518-10-3D1G3D5G IS A 3.1 TO 3.5 GHz FREQUENCY DESCRIMINATOR HAVING A VSWR OF 2.0:1 MAXIMUM AND 1.5:1 TYPICAL, AND A FREQUENCY DISCRIMINATOR ACCURACY OF ± 10 MHz GOAL & ± 20 MHz MAX.

APRIL 4, 2018

DESIGNED BY: PMI ENGINEERING

TESTED AND REPORTED BY: E. KRETZ

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TYPICAL CHARACTERISTICS
ON
FD-0518-10-3D1G3D5G

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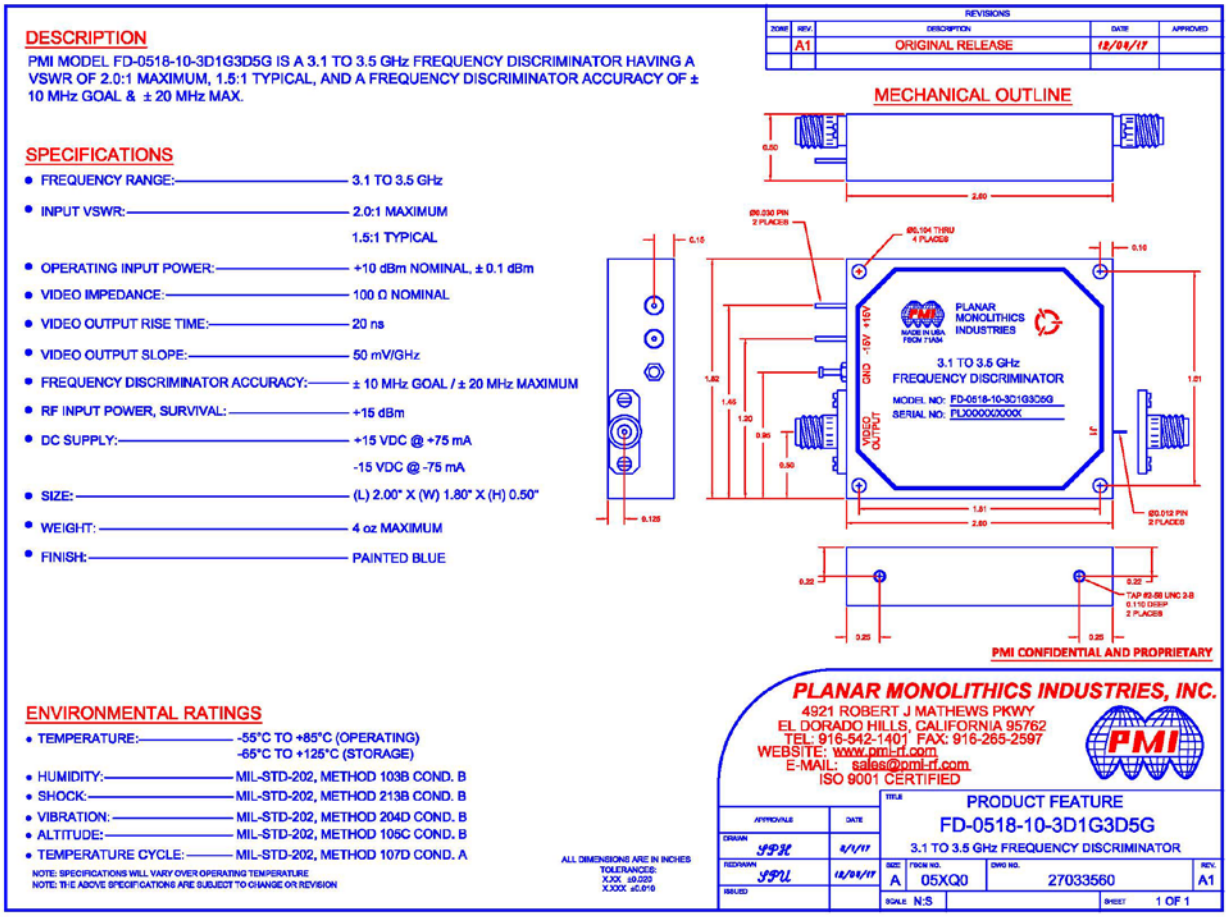
OUTLINE DRAWING



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TEST DATA SUMMARY

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	PASS/FAIL	QA QC
1	Frequency Range:	3.1 TO 3.5 GHz	**3.1 TO 3.5 GHz**	**PASS**
2	Input VSWR	2.0:1 MAX 1.5:1 TYP	**1.68:1 Max**	**PASS**
3	Operating Input Power	+10 dBm NOM, ± 0.1 dBm	**+10 dBm**	**PASS**
4	Video Impedance	100 Ω NOM	**100 Ω**	**PASS**
6	Video Output Rise Time	20 ns	**10 ns**	**PASS**
7	Video Output Slope	50 mV/GHz	**50 mV/GHz**	**PASS**
8	Frequency Discriminator Accuracy	± 10 MHz GOAL / ± 20 MHz MAX	**± 18.7 MHz**	**PASS**
9	RF Input Power, Survival	+15 dBm	**+15 dBm**	**PASS**
10	DC Supply:	+15 VDC @ +75 mA -15 VDC @ -75 mA	**+15 VDC @ +15 mA** **-15 VDC @ -12 mA**	**PASS**

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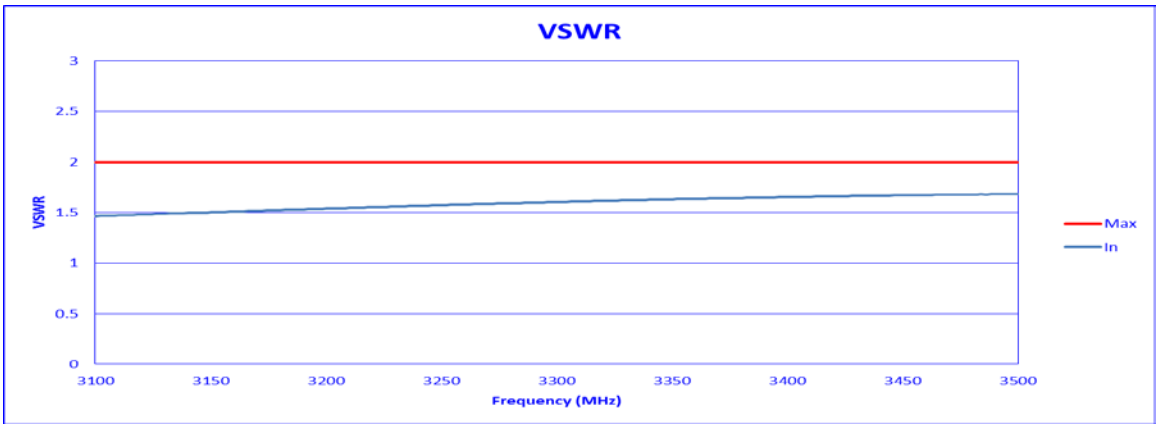

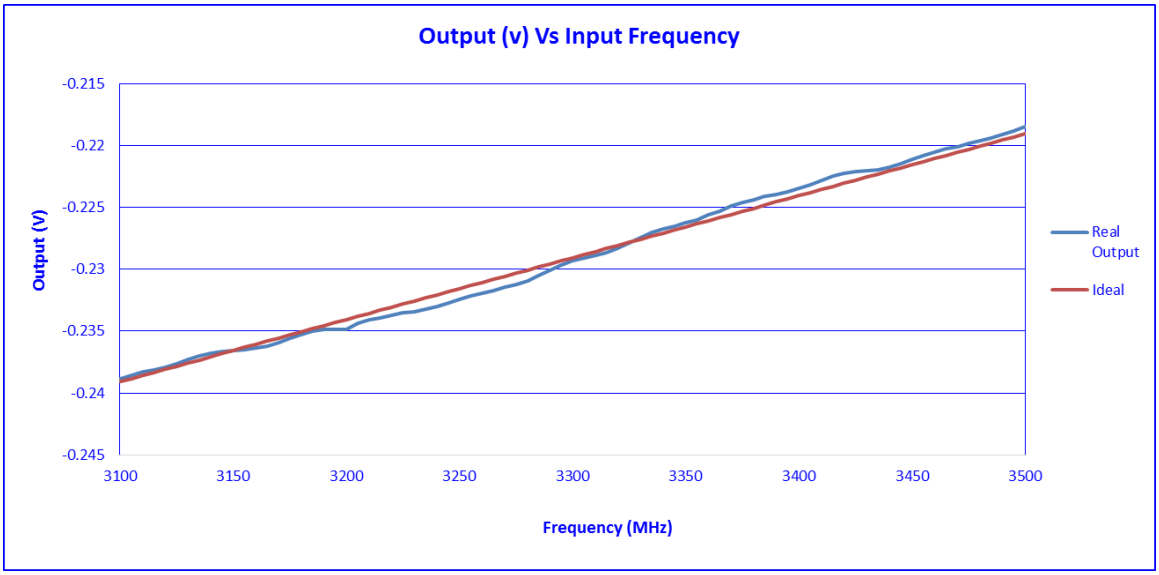

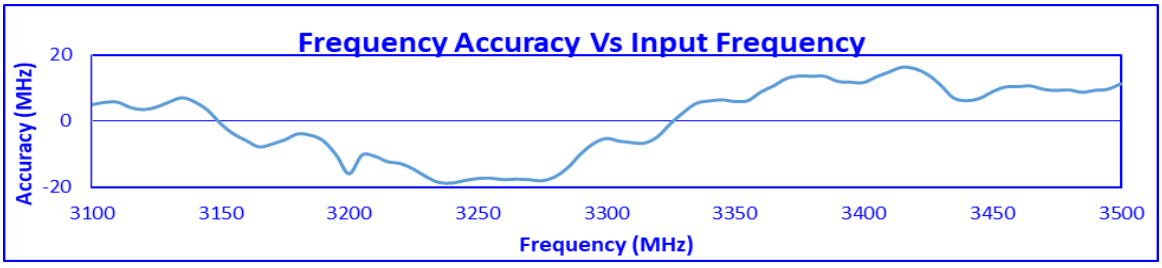

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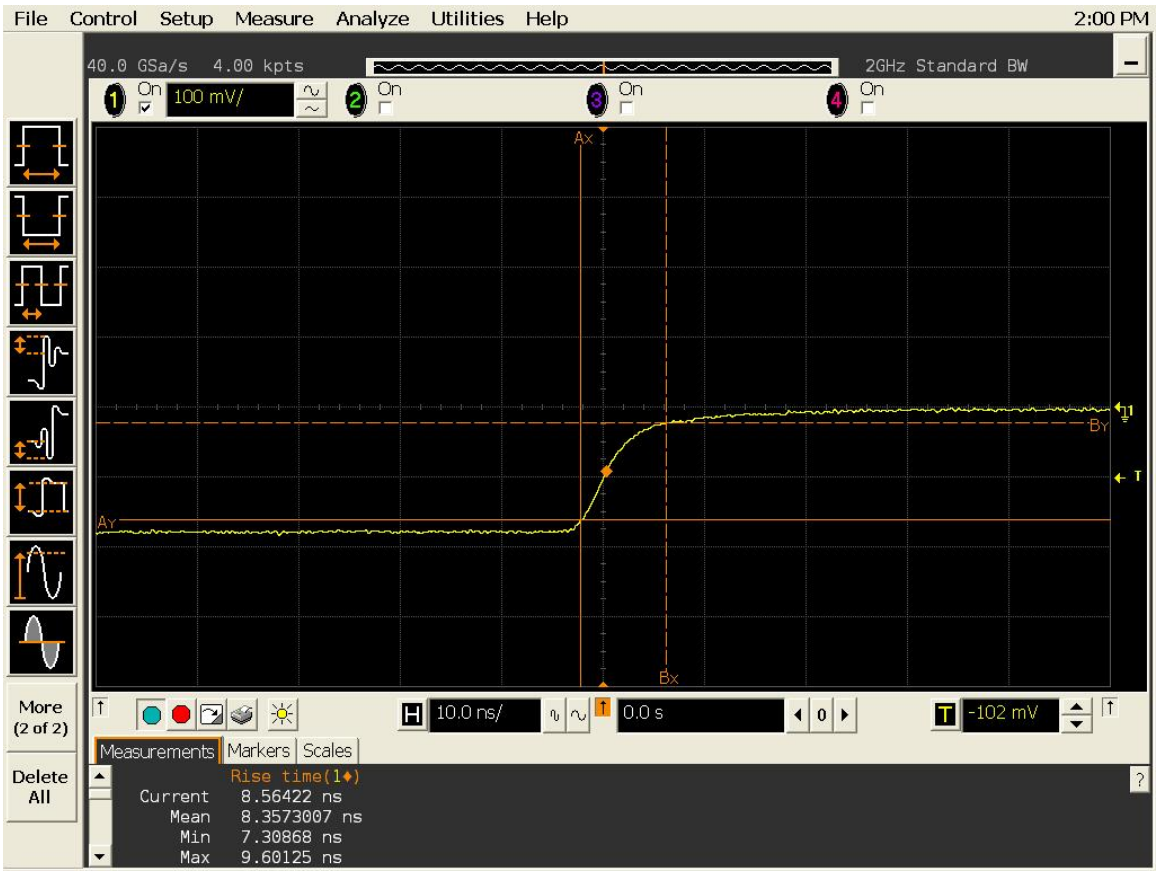
OUTPUT RISE TIME



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Typical Output Table		
MHz	dBm	Volts
3100	10	-0.238822356
3105	10	-0.238536695
3110	10	-0.238284529
3115	10	-0.238115199
3120	10	-0.237896669
3125	10	-0.237609494
3130	10	-0.237282391
3135	10	-0.236966829
3140	10	-0.236780141
3145	10	-0.236656432
3150	10	-0.236608473
3155	10	-0.236513266
3160	10	-0.236365918
3165	10	-0.236210649
3170	10	-0.235918303
3175	10	-0.235604201
3180	10	-0.235264014
3185	10	-0.235034373
3190	10	-0.234870033
3195	10	-0.234834429
3200	10	-0.23486843
3205	10	-0.234334933
3210	10	-0.234103405
3215	10	-0.233935896
3220	10	-0.233712793
3225	10	-0.233546346
3230	10	-0.233413067
3235	10	-0.23324915
3240	10	-0.233008077
3245	10	-0.232718261
3250	10	-0.232439621
3255	10	-0.232183945
3260	10	-0.231956043
3265	10	-0.231697869
3270	10	-0.231456093
3275	10	-0.231222181
3280	10	-0.230914818
3285	10	-0.230526675
3290	10	-0.230069742
3295	10	-0.229661189

MHz	dBm	Volts
3300	10	-0.229333776
3305	10	-0.229123418
3310	10	-0.228896357
3315	10	-0.228651914
3320	10	-0.228303895
3325	10	-0.22785867
3330	10	-0.227439417
3335	10	-0.227052062
3340	10	-0.226765362
3345	10	-0.22649902
3350	10	-0.226273249
3355	10	-0.226011454
3360	10	-0.225632439
3365	10	-0.225288431
3370	10	-0.224926204
3375	10	-0.224637796
3380	10	-0.224392002
3385	10	-0.224143153
3390	10	-0.22396949
3395	10	-0.223732127
3400	10	-0.223487431
3405	10	-0.223150053
3410	10	-0.222827614
3415	10	-0.22250517
3420	10	-0.222277236
3425	10	-0.222117249
3430	10	-0.222025916
3435	10	-0.22196962
3440	10	-0.221761005
3445	10	-0.221478881
3450	10	-0.221128504
3455	10	-0.2208057
3460	10	-0.220549236
3465	10	-0.220288933
3470	10	-0.220089356
3475	10	-0.219856399
3480	10	-0.219599378
3485	10	-0.21938464
3490	10	-0.219104372
3495	10	-0.218838453
3500	10	-0.218505227

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