TYPICAL CHARACTERISTICS
ON
APD-7-328M335R5M-TNC

PMI MODEL NO. APD-7-328M335R5M-TNC IS A 7-WAY POWER DIVIDER THAT OPERATES OVER THE FREQUENCY RANGE 328 TO 335.5 MHz. IT HAS AN INSERTION LOSS OF 1.2 dB MAXIMUM AND AN ISOLATION OF 20 dB MINIMUM. IT IS SUPPLIED IN A HERMETICALLY SEALED OR CONFORMAL COATED PACKAGE PER REQUEST AND IS OUTFITTED WITH TNC FEMALE CONNECTORS.

March 13, 2019

Designed By: PMI Engineering

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TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

DESCRIPTION

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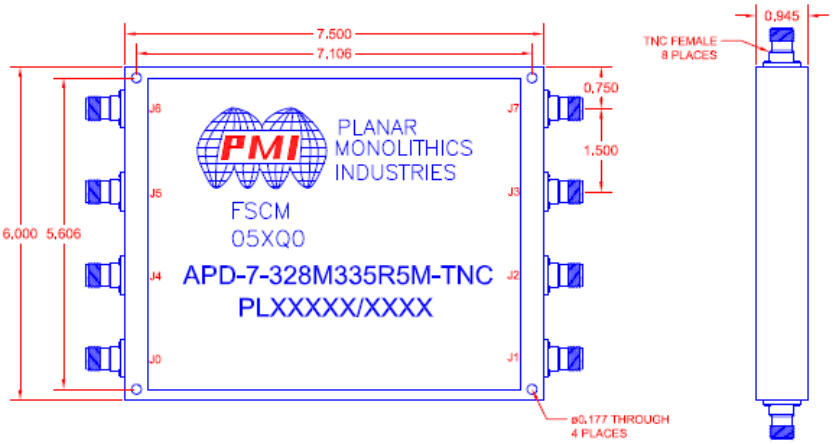
REVISIONS

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	-	PRELIMINARY	9/6/2018	
	1	UPDATED SPECS AND HOUSING	9/26/2018	
	2	MECHANICAL UPDATE	9/14/2019	

SPECIFICATIONS

- FREQUENCY RANGE: 328 TO 335.5 MHz
- INSERTION LOSS: 1.2 dB MAXIMUM
- VSWR: 1.15:1 MAXIMUM
- ISOLATION: 20 dB MINIMUM
- AMPLITUDE BALANCE: ±0.2 dB MAXIMUM
- PHASE BALANCE: ±2° MAXIMUM
- POWER HANDLING: FORWARD: 15 WATTS MAXIMUM
  REVERSED: 1 WATT MAXIMUM
- IMPEDANCE: 50 OHMS
- PORT CONNECTORS: TNC FEMALE
- FINISH: PAINTED BLUE
- SEALING: HERMETIC OR CONFORMAL COATED PER REQUEST

MECHANICAL OUTLINE



SPECIFICATION TABLE

PORT	MAGNITUDE (dB)	PHASE (DEGREE)
J4	-5.05	0
J3	-6.30	-18
J2	-10.28	-35
J1	-18.06	-52
J5	-6.30	+18
J6	-10.28	+35
J7	-18.06	+52

ENVIRONMENTAL RATINGS

- TEMPERATURE: -50 °C TO +85 °C (OPERATING)
  -65 °C TO +125 °C (STORAGE)
- HUMIDITY: UP TO 95%, NON-CONDENSING (OPERATING)
- SHOCK: MIL-STD-202, METHOD 213B COND. B
- VIBRATION: MIL-STD-202, METHOD 204D COND. B
- ALTITUDE: MIL-STD-202, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202, METHOD 107D COND. A

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE

NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ALL DIMENSIONS ARE IN INCHES [mm]
TOLERANCES:
X.XX ±0.020
X.XXX ±0.010

PMI CONFIDENTIAL AND PROPRIETARY

PLANAR MONOLITHICS INDUSTRIES, INC.
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WEB: www.pmi-rf.com, EMAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED

APPROVALS	DATE
DRAWN CW	9/6/18
REDRAWN	
ISSUED	

TITLE: PRODUCT FEATURE APD-7-328M335R5M-TNC

SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	PRELIMINARY	2

SCALE N:S SHEET 1 OF 1

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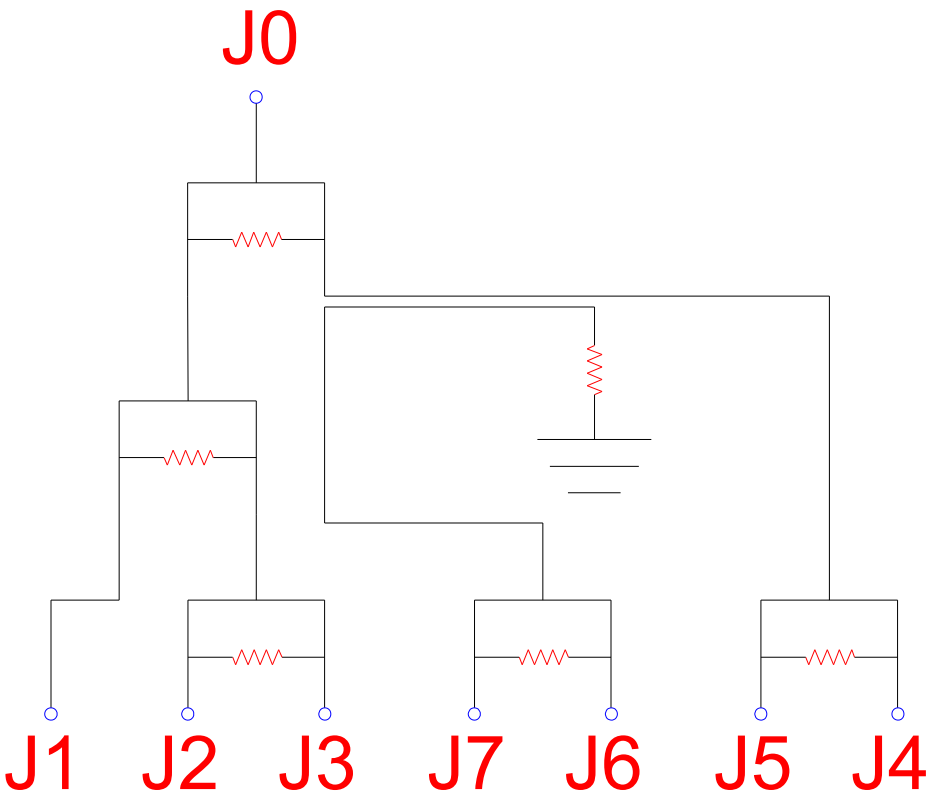
RF SCHEMATIC



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TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

SUMMARY DATA

Measured at 331.75 MHz

Specified Phase	Measured Phase	Phase Deviation
0	0	0
35	35.3	-0.3
-35	-34.8	-0.2
52	52.2	-0.2
-52	-51.1	-0.9
18	18.3	-0.3
-18	-18.9	0.9

Specified Magnitude	Measured Magnitude	Magnitude Deviation	Theoretical Loss	Actual Magnitude Deviation
-5.05	5.51	0.46	0.46	0
-10.28	10.72	0.44	0.46	-0.02
-10.28	10.82	0.54	0.46	0.08
-18.06	18.51	0.45	0.46	-0.01
-18.06	18.6	0.54	0.46	0.08
-6.3	6.72	0.42	0.46	-0.04
-6.3	6.76	0.46	0.46	0

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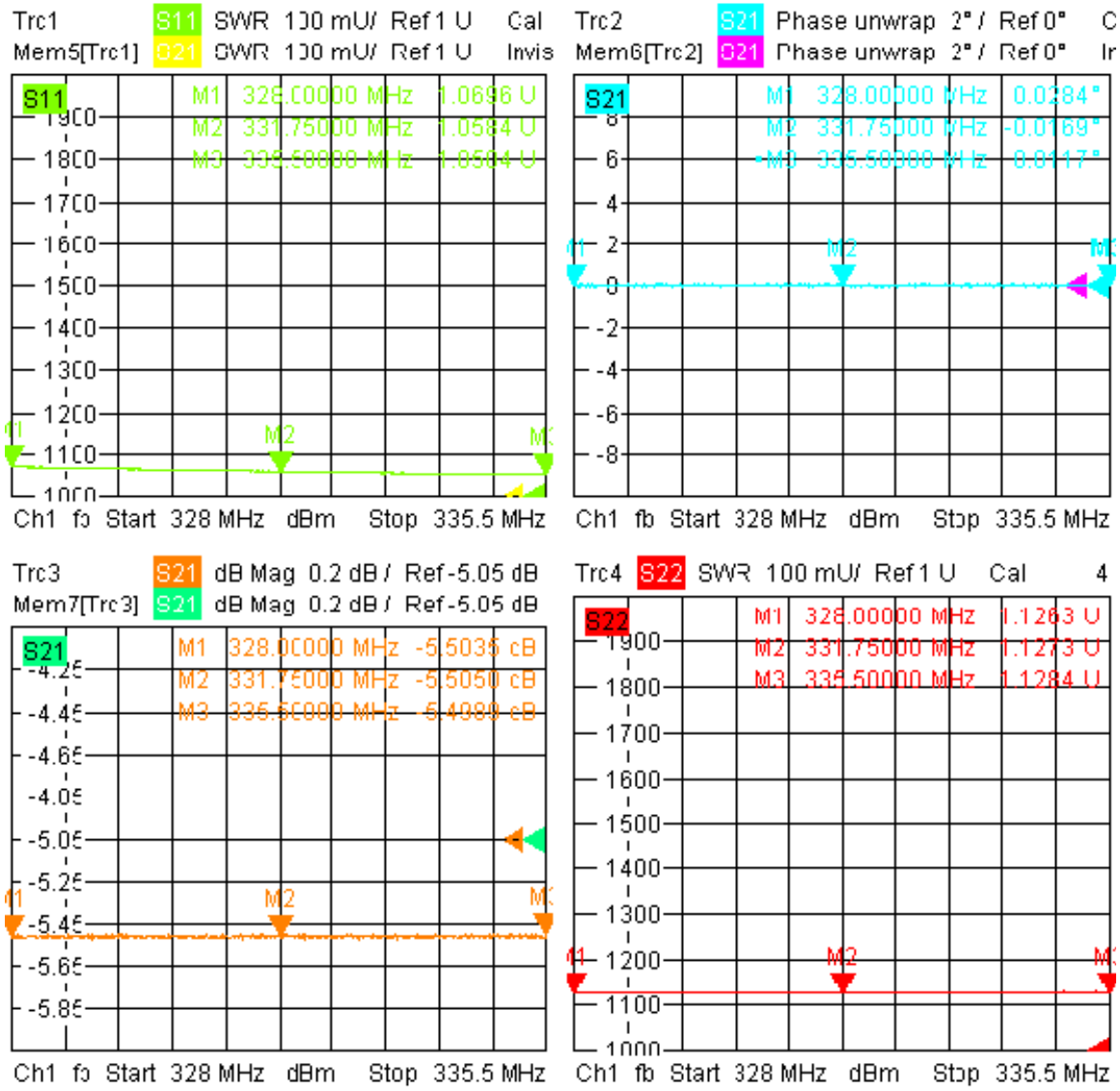
TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

J0 to J1_ Input& Output VSWR, Insertion Loss, Phase Balance



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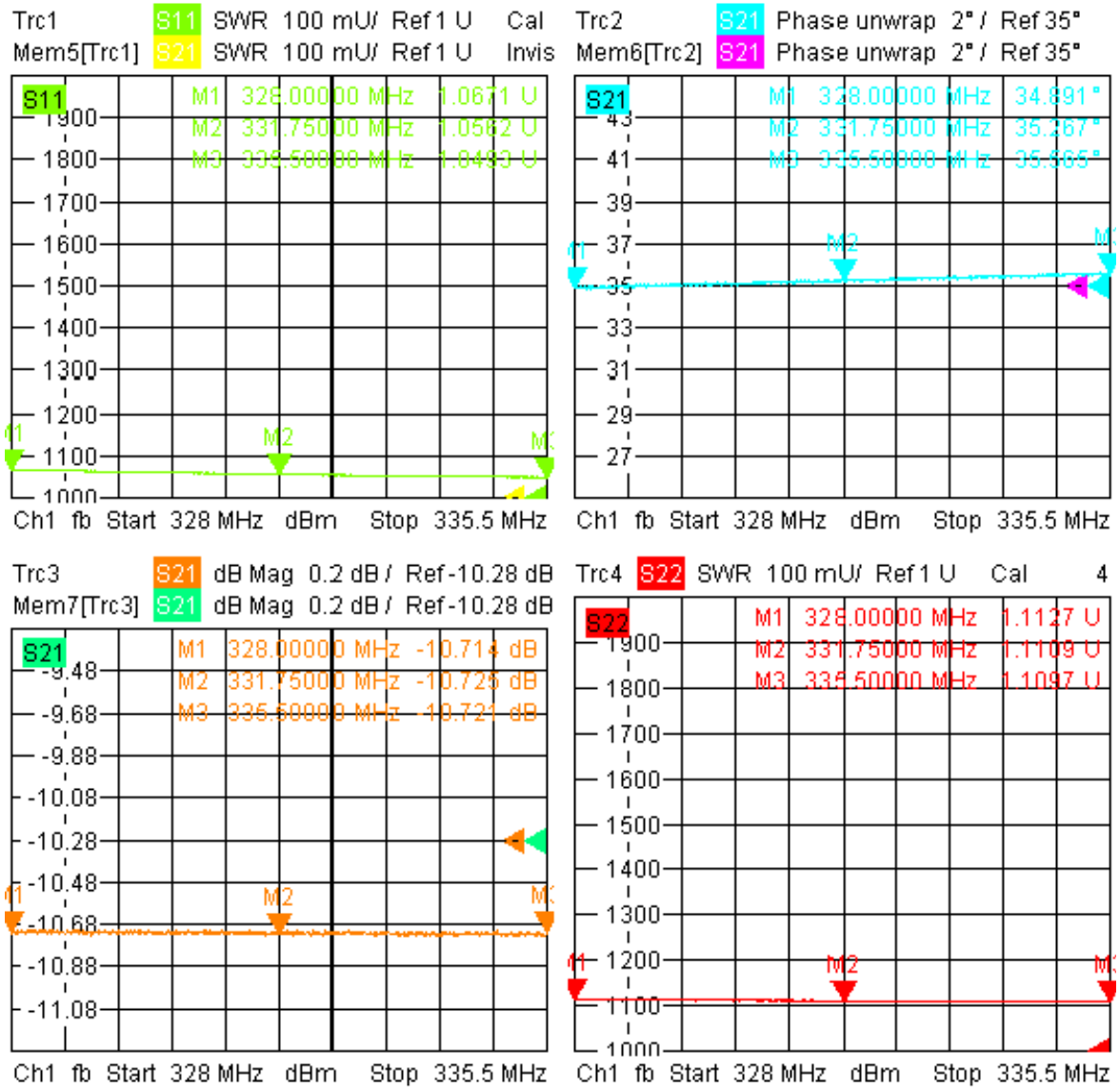
TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

J0 to J2_ Input& Output VSWR, Insertion Loss, Phase Balance



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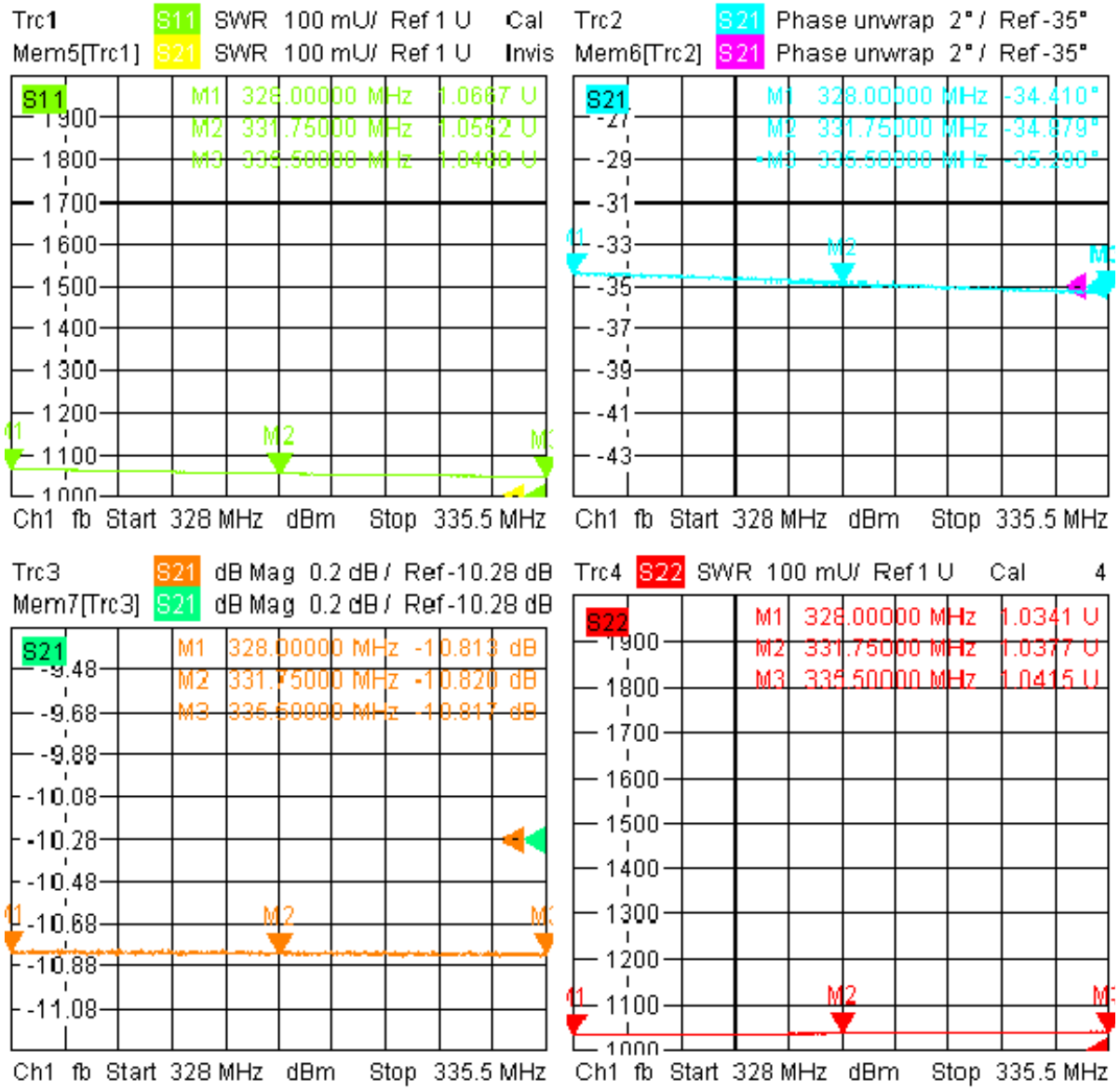
TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

J0 to J3_ Input& Output VSWR, Insertion Loss, Phase Balance



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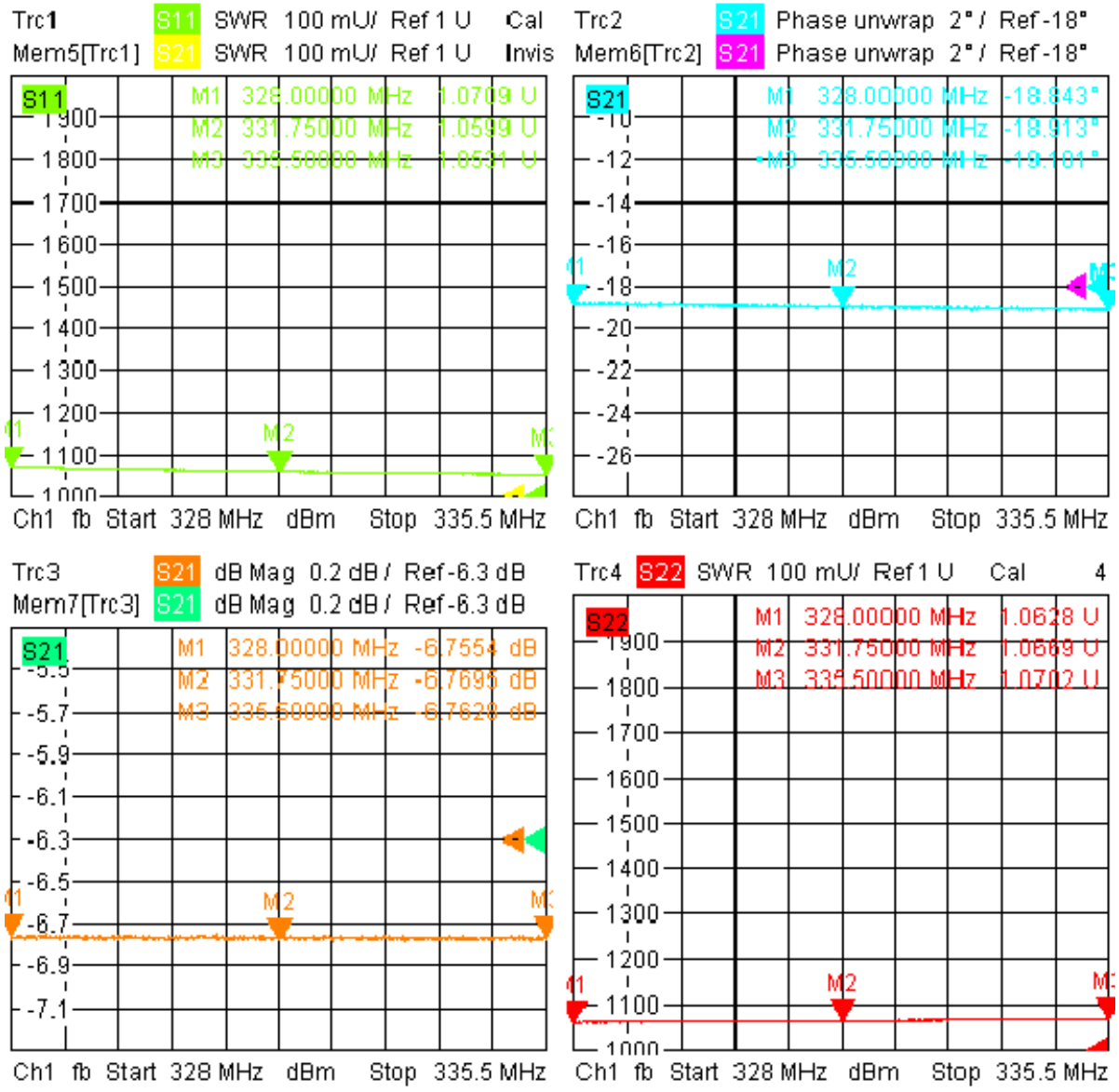
TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

J0 to J7_ Input& Output VSWR, Insertion Loss, Phase Balance



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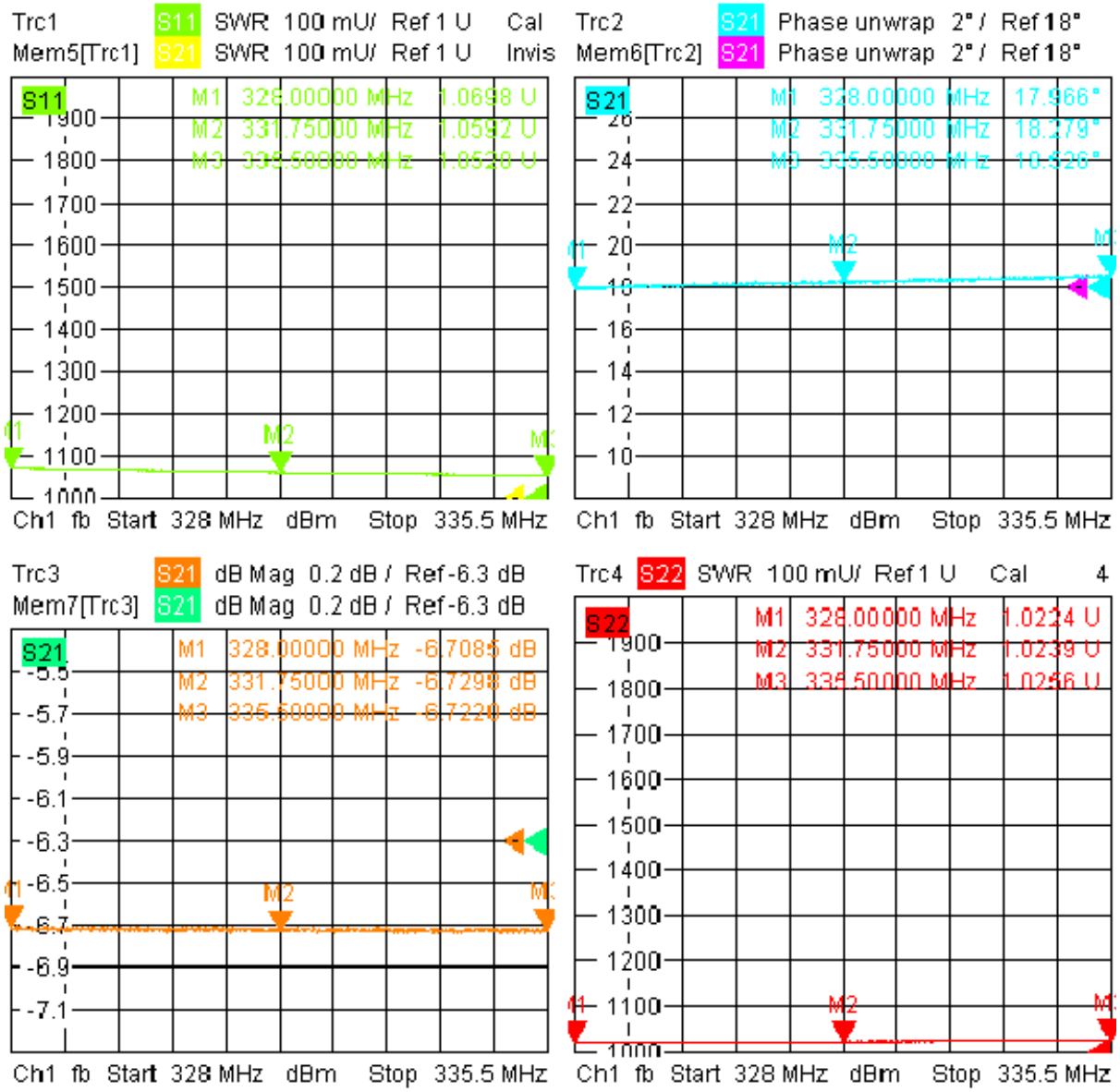
TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

J0 to J6_ Input& Output VSWR, Insertion Loss, Phase Balance



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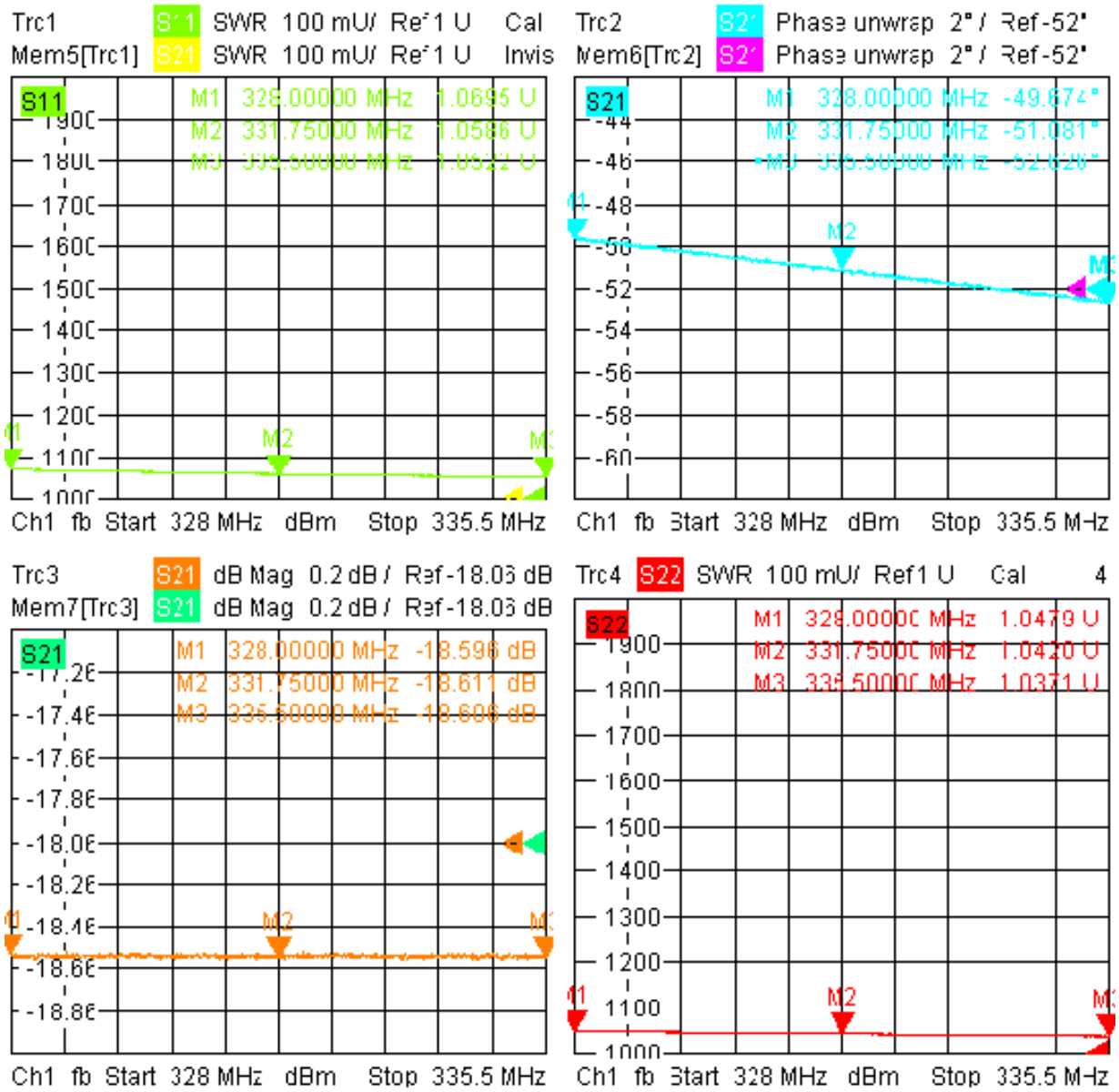
TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

J0 to J5_ Input& Output VSWR, Insertion Loss, Phase Balance



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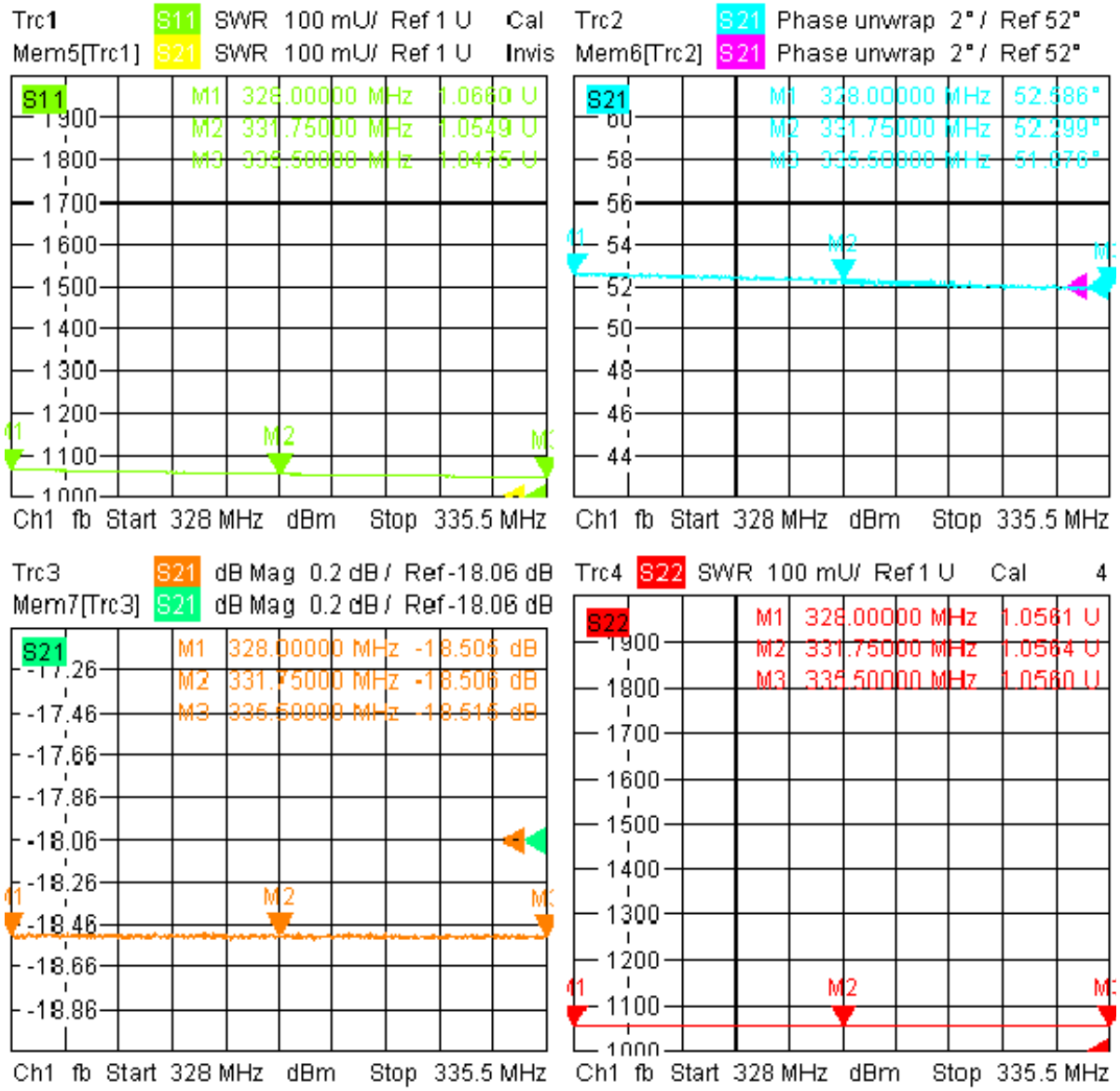
TYPICAL CHARACTERISTICS
ON
APD-7-328M335R5M-TNC

J0 to J4_ Input& Output VSWR, Insertion Loss, Phase Balance



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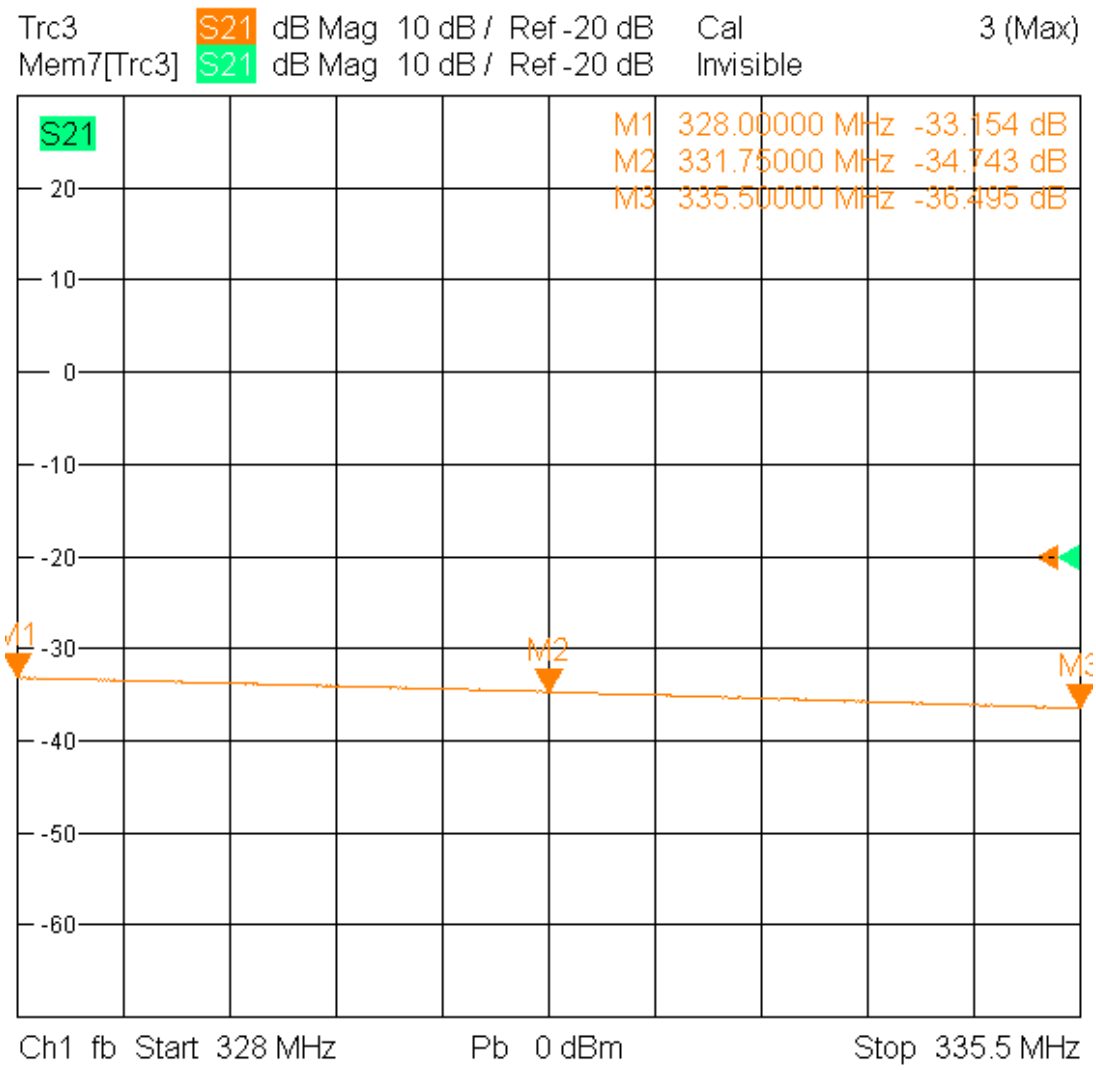
J1to J2_ Isolation



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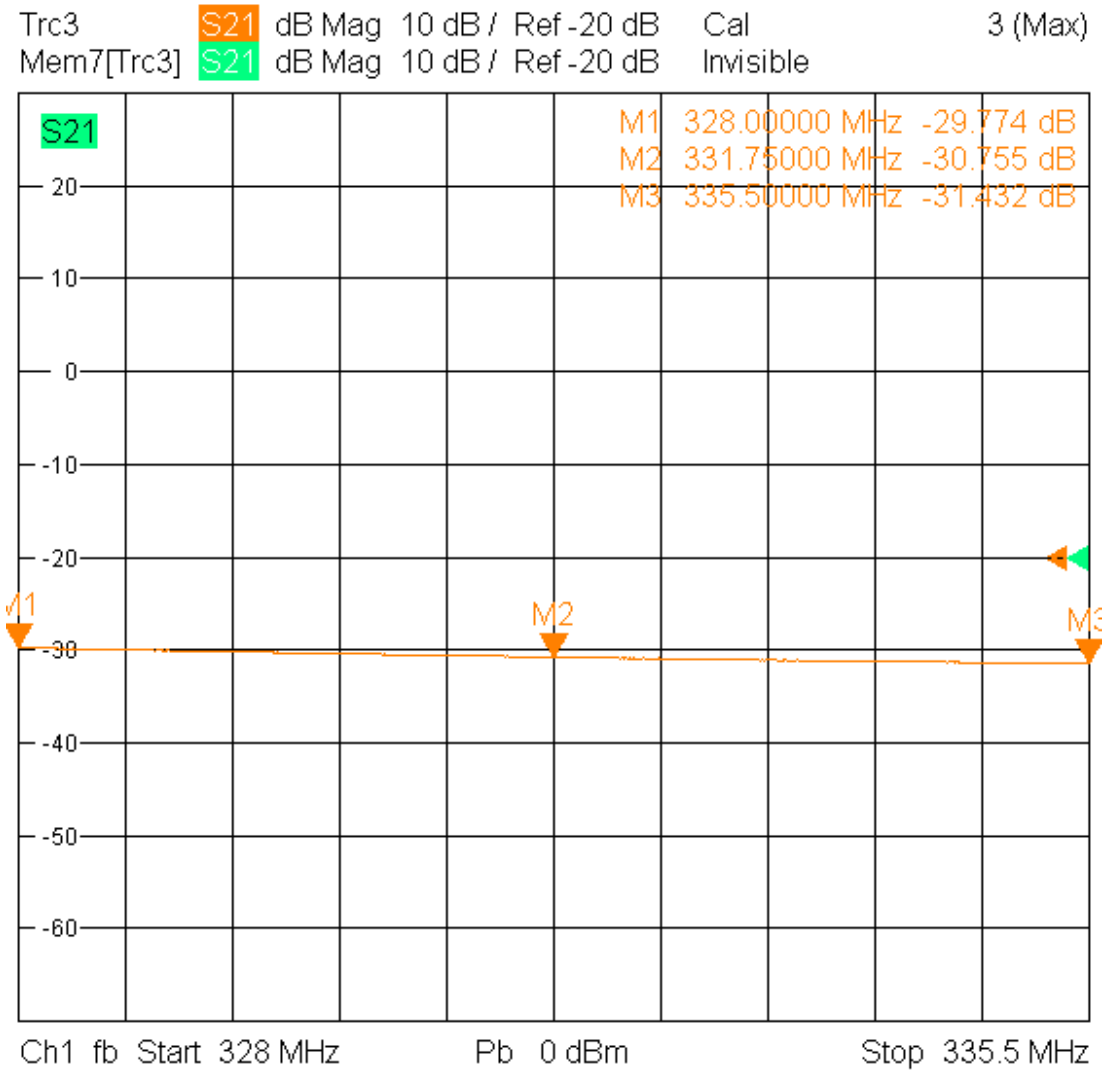
J2to J3_ Isolation



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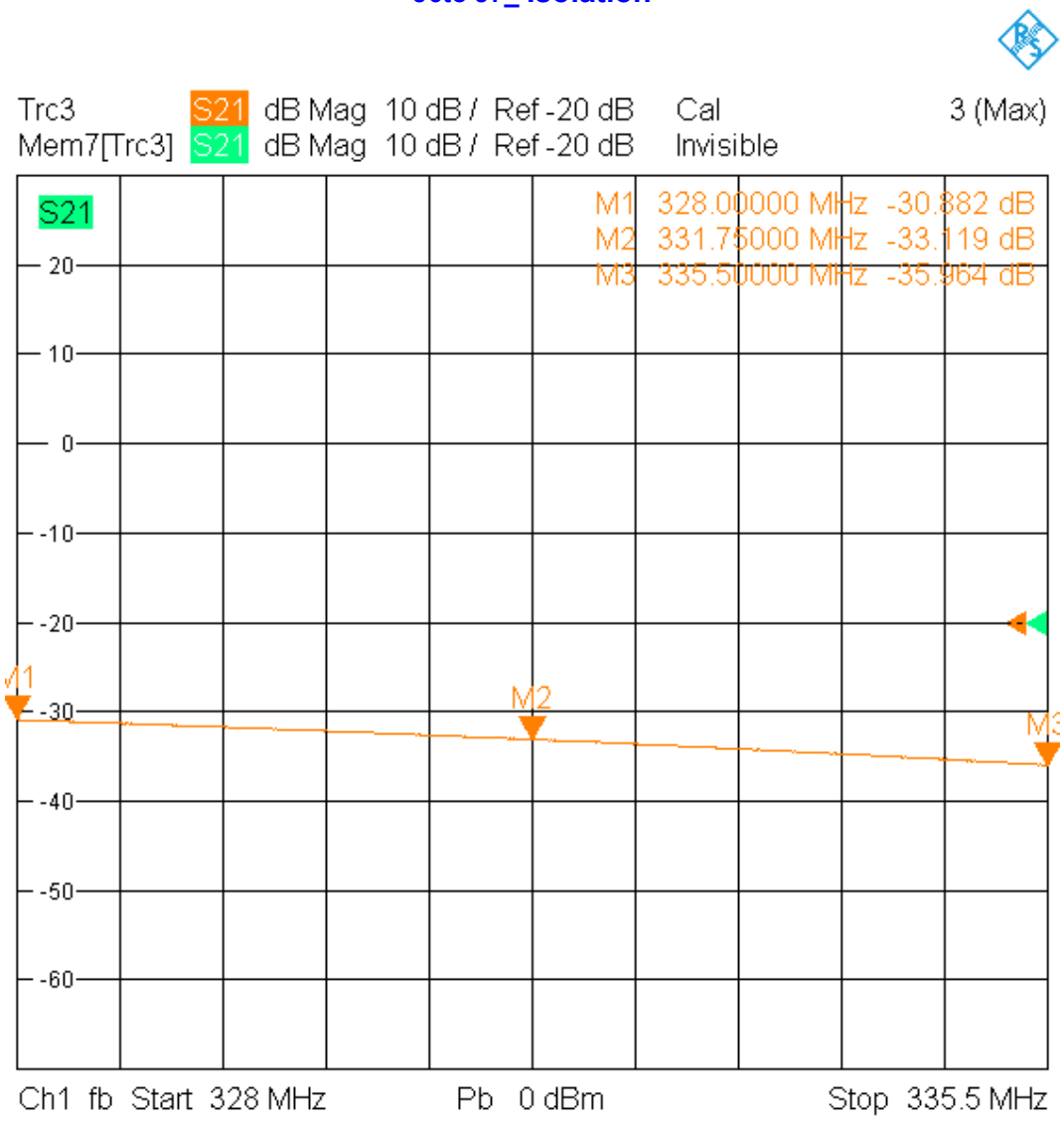
J6to J7_ Isolation



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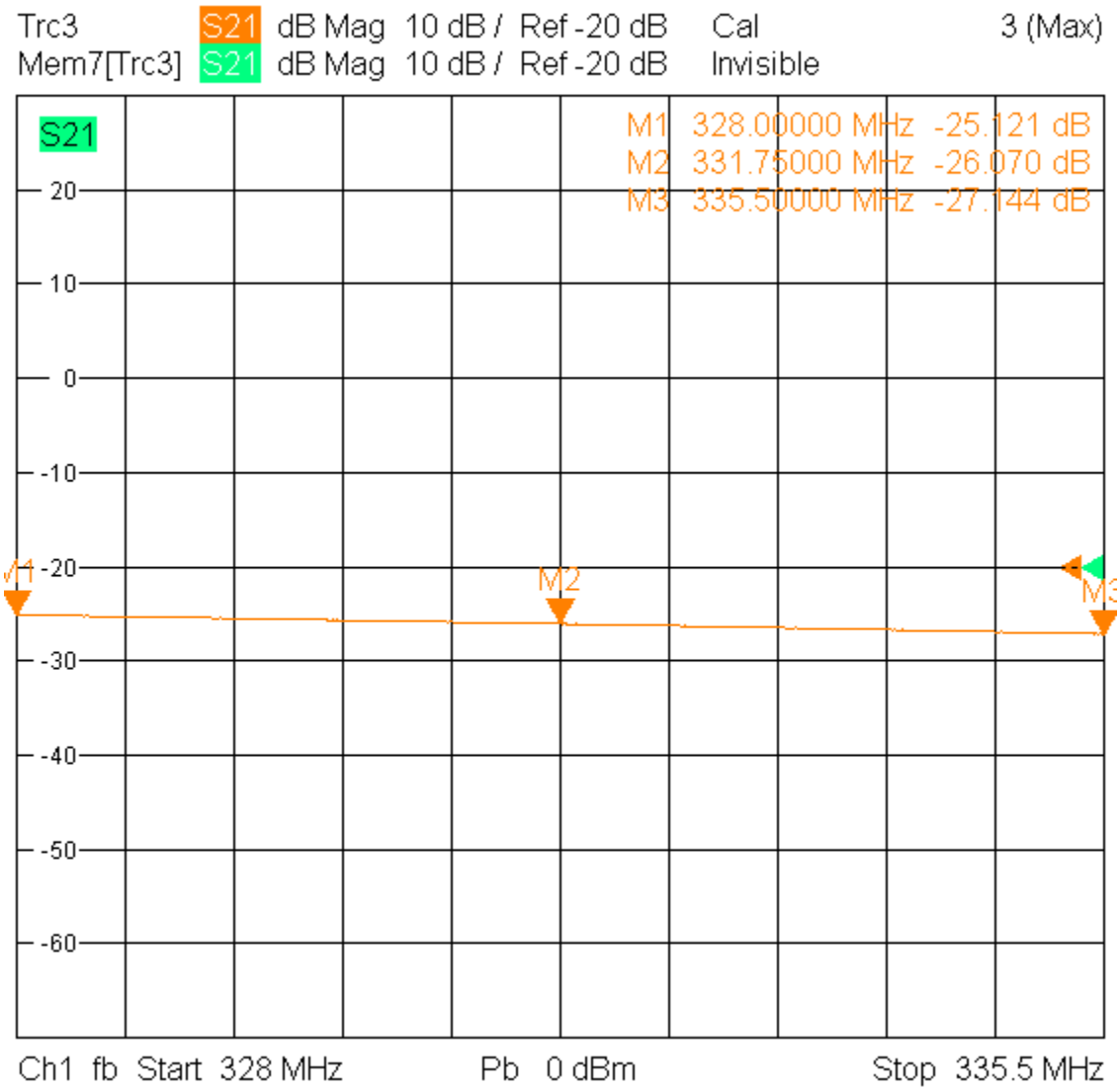
TYPICAL CHARACTERISTICS ON APD-7-328M335R5M-TNC

J4to J5_ Isolation



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