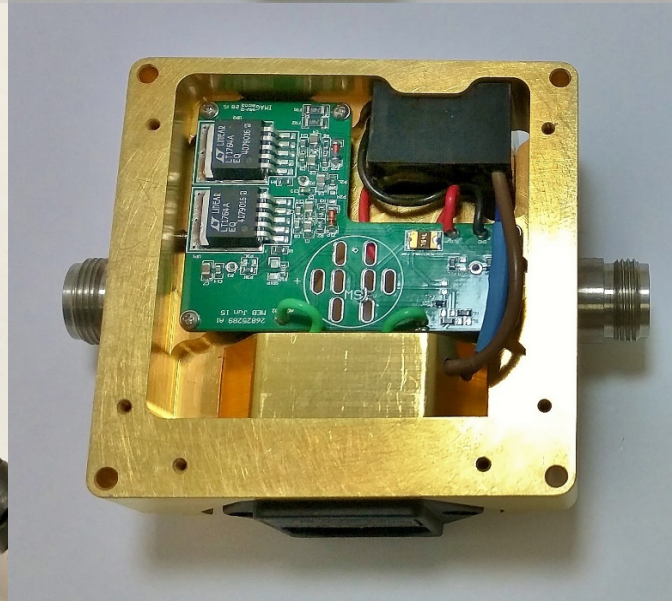
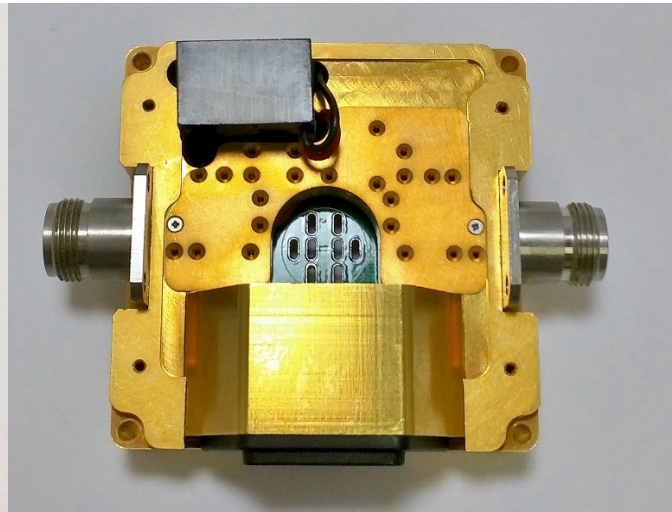




Typical Characteristics For PLNA-30-10M6G-P1dB22-120VAC

PMI MODEL PLNA-30-10M6G-P1dB22-120VAC IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 10MHz TO 6.0GHz FREQUENCY RANGE. THIS MODEL PROVIDES A TYPICAL GAIN OF 30dB WITH AN OUTPUT P1dB OF +22dBm. THIS AMPLIFIER FEATURES AN ILLUMINATED PUSH BUTTON ON/OFF SWITCH IN A SMALL PACKAGE.



Aug 10, 2015

Report By: Michael Benjamins, Paul Kuhn

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Mechanical Designed By: Michael Benjamins, Paul Kuhn

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Typical Characteristics For PLNA-30-10M6G-P1dB22-120VAC

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Typical Characteristics For PLNA-30-10M6G-P1dB22-120VAC

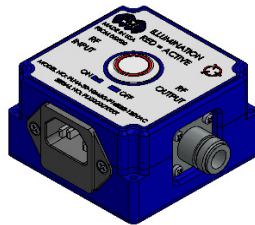
Product Feature

DESCRIPTION

PMI MODEL PLNA-30-10M6G-P1dB22-120VAC IS A PORTABLE AMPLIFIER THAT OPERATES OVER THE 10MHZ TO 6.0GHZ FREQUENCY RANGE. THIS MODEL PROVIDES A TYPICAL GAIN OF 30dB WITH AN OUTPUT P1dB OF +22dBm. THIS AMPLIFIER FEATURES AN ILLUMINATED PUSH BUTTON ON/OFF SWITCH IN A SMALL PACKAGE.

SPECIFICATIONS

- FREQUENCY RANGE: 10 MHz TO 6.0 GHz
- GAIN: 30dB TYP.
- GAIN FLATNESS: ± 2.0 dB MAX.
- NOISE FIGURE: 4.5dB TYP., 5.25dB MAX.
- OP1dB: +22dBm MIN.
- VSWR IN/OUT: 2.0:1 TYP.
- MAXIMUM RF INPUT: +10dBm CW
- AC VOLTAGE SUPPLY: 110 VAC
- AC CONNECTOR: 3 PIN IEC
- ON/OFF SWITCH: VANDEL SWITCH ILLUMINATED
- RF CONNECTOR IN/OUT: N-TYPE
- SIZE: (L) 3.00" X (W) 3.00" X (H) 1.75"
- FINISH: BLUE EPOXY POLIMIDE COATING IAW MIL-C-22750, TYPE I OVER EPOXY POLIMIDE PRIMER IAW MIL-P-23377, TYPE I, CLASS 1 OR 3.



ENVIRONMENTAL RATINGS

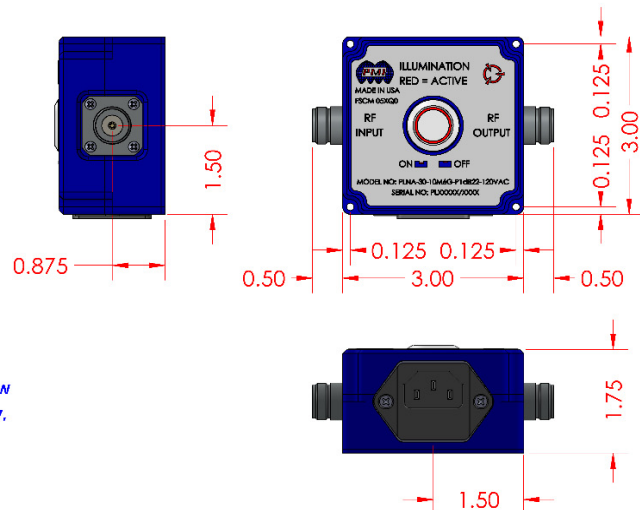
- TEMPERATURE: -20°C TO + 55°C (OPERATING)

NOTE: SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

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

REVISIONS			
ZONE	REV.	DESCRIPTION	DATE
1		ORIGINAL RELEASE	8/7/02 P115
2		REDLINE- MOVED POWER CONNECTOR	8/14/02 P115

MECHANICAL OUTLINE



PMI CONFIDENTIAL AND PROPRIETARY

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E-MAIL: sales@pmi-rf.com
ISO 9001 CERTIFIED



APPROVALS		DATE	
DRAWN	DATE	3/15/2005	
CHECKED	DATE	3/15/2005	
ISSUED	DATE	3/15/2005	

TITLE			
PRODUCT FEATURE			
PLNA-30-10M6G-P1dB22-120VAC			
SIZE	FSCM NO.	DWG NO.	REV.
A	05XQ0	27025280	2
SCALE	N.S.	SHEET 1 OF 1	



Typical Characteristics For PLNA-30-10M6G-P1dB22-120VAC

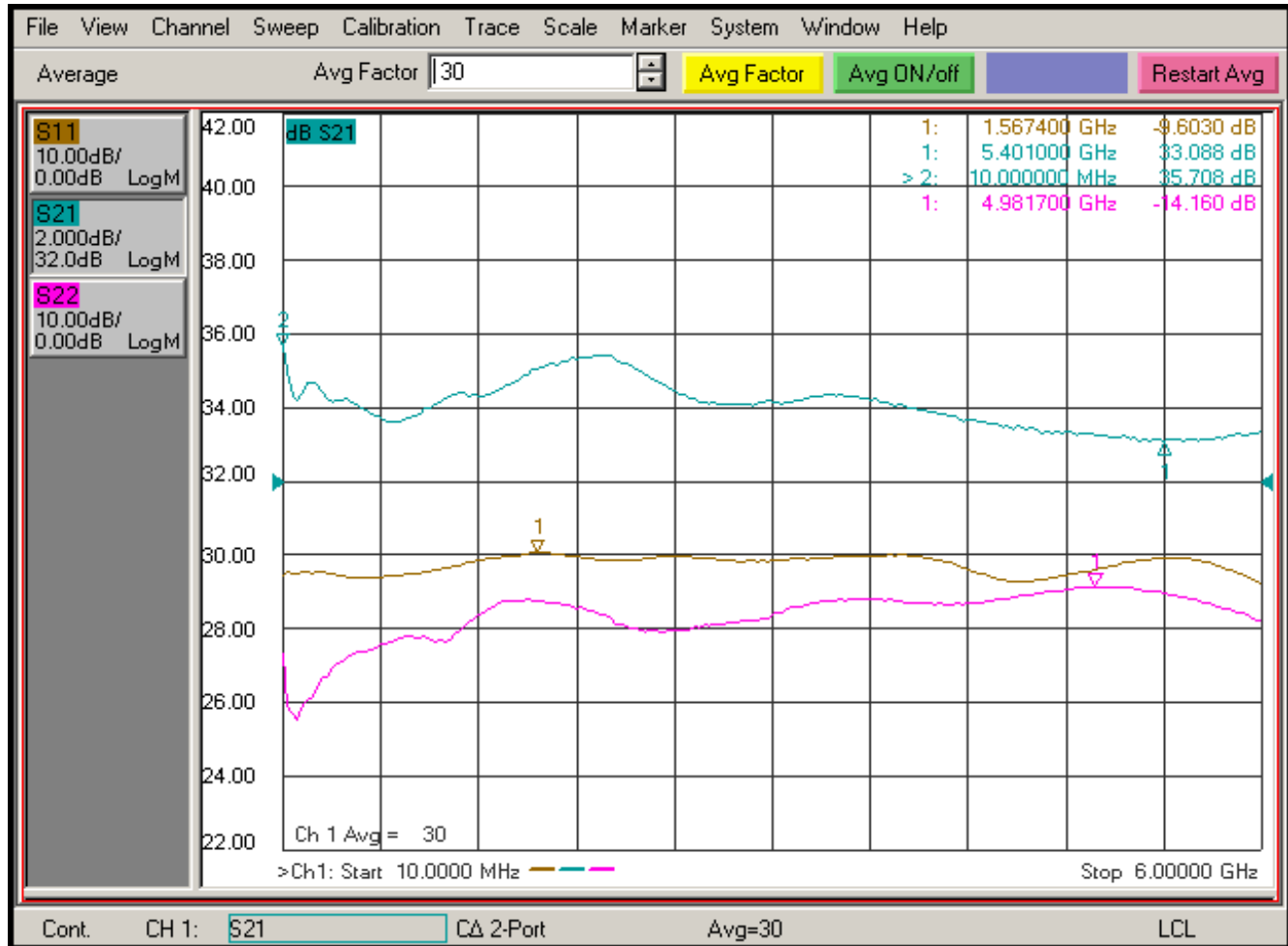
Summary Data

TEST ITEM NO	PARAMETERS	SPECIFIED VALUE	TEST RESULTS	QA QC
1	Frequency Range:	10 MHz to 6.0 GHz	10 MHz to 6.0 GHz	
2	Gain:	30 dB TYP	34.3 dB	
3	Gain Flatness:	±2.0 dB MAX	±1.35 dB	
4	VSWR:	2.0:1 TYP	1.99:1	
5	Noise Figure:	4.5 dB TYP, 5.25 dB MAX	4.9 dB	
6	Out Power P1dB:	22 dBm MIN	22.33 dBm	
7	MAX Input Power:	10 dBm CW	10 dBm	
8	Power Supply:	110 VAC	110 VAC @ 4.5 W	



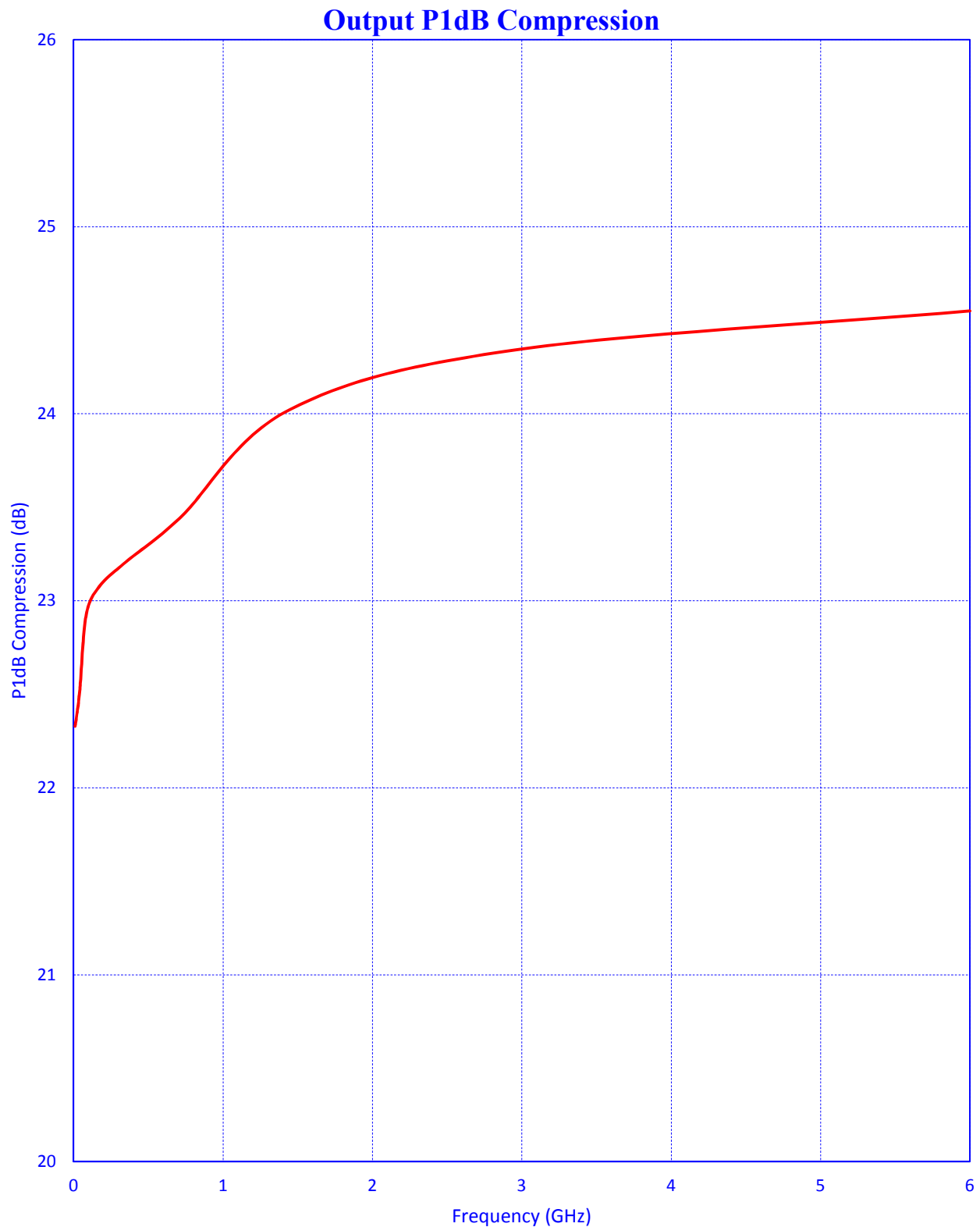
Typical Characteristics For PLNA-30-10M6G-P1dB22-120VAC

Gain, Flatness, Input/Output Return Loss





Typical Characteristics For PLNA-30-10M6G-P1dB22-120VAC



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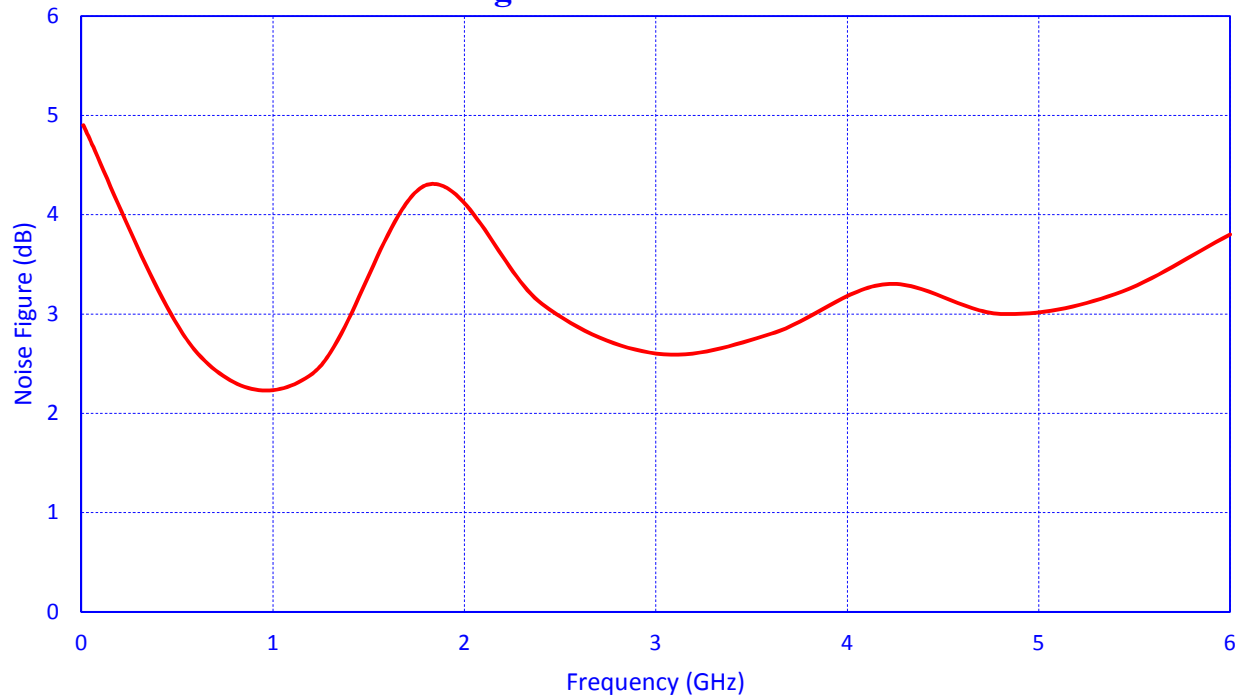
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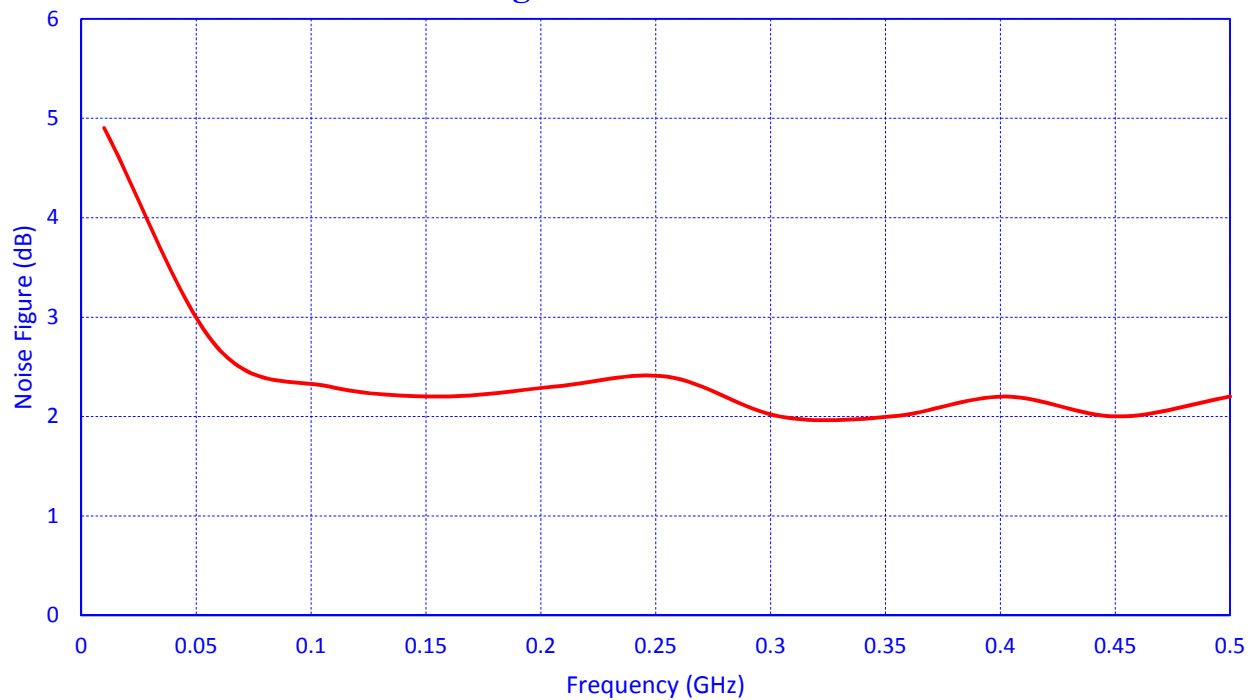


Typical Characteristics For PLNA-30-10M6G-P1dB22-120VAC

Noise Figure 400 kHz Bandwidth



Noise Figure 100 kHz Bandwidth



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