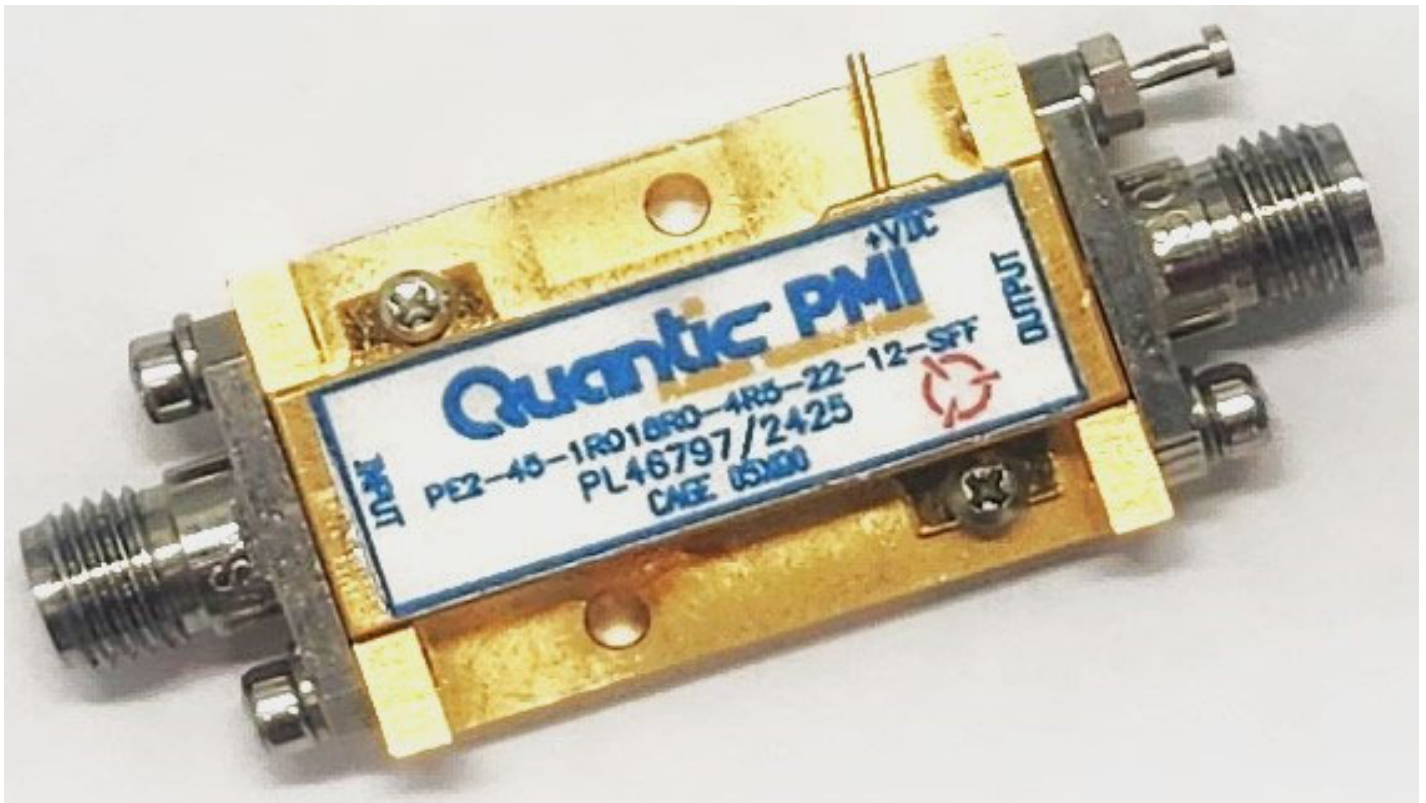


**TYPICAL CHARACTERISTICS
ON
PE2-45-1R018R0-4R5-22-12-SFF**

PMI MODEL NUMBER PE2-45-1R018R0-4R5-22-12-SFF IS A LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE. THIS MODEL PROVIDES THE FOLLOWING PERFORMANCE. DATA IS AVAILABLE UPON REQUEST.



**REPORTED BY
J ESCANO
6/27/2024**

TYPICAL CHARACTERISTICS ON PE2-45-1R018R0-4R5-22-12-SFF PRODUCT FEATURE

DESCRIPTION:

PMI MODEL NUMBER PE2-45-1R018R0-4R5-22-12-SFF IS A LOW NOISE AMPLIFIER DESIGNED FOR MILITARY AND INDUSTRIAL APPLICATIONS. THIS AMPLIFIER IS SUPPLIED IN OUR STANDARD PE2 HOUSING THAT CAN BE USED AS AN SMA CONNECTORIZED OR A SURFACE MOUNT COMPONENT. OTHER PACKAGES AND CONNECTOR TYPES ARE AVAILABLE. THIS MODEL PROVIDES THE FOLLOWING PERFORMANCE. DATA IS AVAILABLE UPON REQUEST.

SPECIFICATIONS:

- FREQUENCY RANGE: 1.0 TO 18.0 GHz
- GAIN: 45 dB TYP, 41 dB MIN
- GAIN FLATNESS: ± 1.5 dB MAX
- NOISE FIGURE: 4.5 dB TYP, 5 dB MAX
- OP1dB: +20 dBm MIN
- VSWR (INPUT/OUTPUT): 2.0:1 MAX
- CONNECTORS: SMA (F) REMOVABLE
- DC SUPPLY: +12 TO +15 VDC @ 385 mA NOM
- SIZE: (L) 1.08" X (W) 0.71" X (H) 0.29"
EXCLUDING CONNECTORS
- FINISH: GOLD PLATED

FEATURES:

- INTERNAL VOLTAGE REGULATION
- UNCONDITIONAL STABILITY
- STANDARD OPERATING TEMPERATURE (-55°C TO +85 °C)

AVAILABLE OPTIONS:

- VARIOUS PACKAGE TYPES
- VARIOUS CONNECTOR TYPES
- TEMPERATURE COMPENSATION
- HERMETIC SEALING
- GAIN AND PHASE MATCHING
- MIL-STD-883 SCREENING AVAILABLE

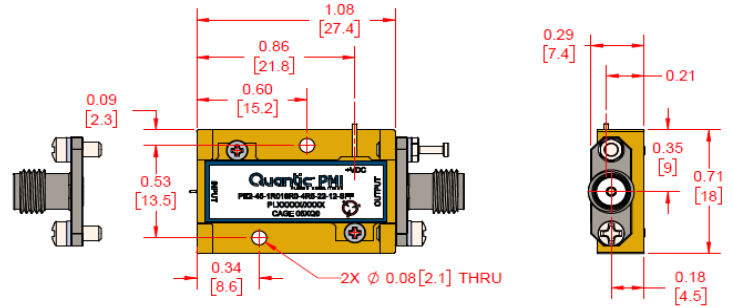
ENVIRONMENTAL RATINGS:

- TEMPERATURE: -55°C TO +85°C (OPERATING)
-65°C TO +125°C (STORAGE)
- HUMIDITY: MIL-STD-202F, METHOD 103B COND. B
- SHOCK: MIL-STD-202F, METHOD 213B COND. B
- ALTITUDE: MIL-STD-202F, METHOD 105C COND. B
- TEMPERATURE CYCLE: MIL-STD-202F, METHOD 107D COND. A

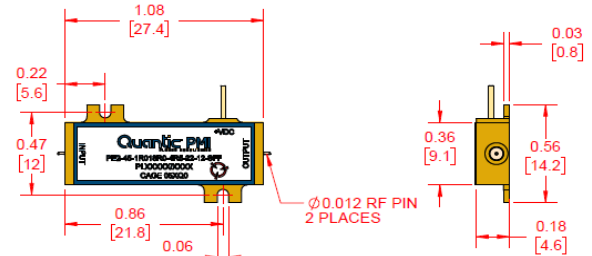
NOTE: SPECIFICATIONS WILL VARY OVER TEMPERATURE
NOTE: THE ABOVE SPECIFICATIONS ARE SUBJECT TO CHANGE OR REVISION

ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A1	ORIGINAL RELEASE	10/17/2003	

PE2 HOUSING WITH CARRIER



PE2 HOUSING WITHOUT CARRIER



PMI CONFIDENTIAL AND PROPRIETARY

APPROVALS		DATE	TITLE	
DRAWN	J. ESCANO	10/17/2003	OUTLINE	
REVIEWED			PE2-45-1R018R0-4R5-22-12-SFF	
ISSUED			SIZE	FORM NO.
			B 05XQD	27047340
			SCALE	2:1

**TYPICAL CHARACTERISTICS
ON
PE2-45-1R018R0-4R5-22-12-SFF**

TEST DATA

TEST ITEM NO.	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			-55°C	+25°C	+85°C	
1	Frequency Range:	1.0 to 18.0 GHz	1.0 to 18.0 GHz			
2	Gain:	+45 dB Typ., +41 dB Min.	+45.9 dB Max. +43.9 dB Min. See Plot	+46 dB Max. +44.1 dB Min. See Plot	+44.9 dB Max. +42.4 dB Min. See Plot	
3	Gain Flatness:	±1.5 dB Max.	±0.97 dB See Plot	±0.95 dB See Plot	±1.29 dB See Plot	
4	Noise Figure:	4.5 dB Typ., 5 dB Max.	3.61 dB See Plot	4.25 dB See Plot	4.66 dB See Plot	
5	OP1dB:	+20 dBm Min.	+21.8 dBm See Plot	+21.3 dBm See Plot	+20.5 dBm See Plot	
6	VSWR: (In/Out)	2.0:1 Max.	1.71:1 In 1.49:1 Out See Plot	1.66:1 In 1.4:1 Out See Plot	1.67:1 In 1.37:1 Out See Plot	
7	DC Supply	+12 V to +15 V @ 385 mA Nom.	307 mA	314 mA	313 mA	

QA/QC Approval: _____

Date: _____

