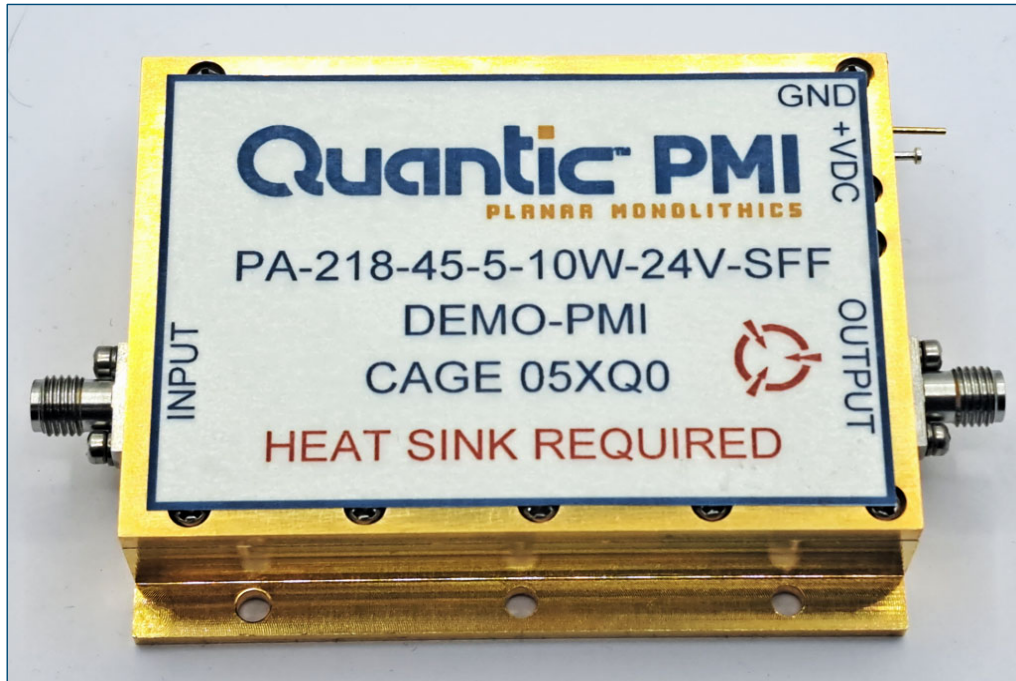


**Typical Characteristics  
ON  
PA-218-45-5-10W-24V-SFF**

PMI MODEL NUMBER PA-218-45-5-10W-24V-SFF IS A 2 TO 18 GHz POWER AMPLIFIER WITH 48 dB MAX GAIN, A NOISE FIGURE OF 5.5 dB MAX AND A SATURATED OUTPUT POWER OF 10 WATTS MIN



**December 6, 2024**

**Designed By:**

**Engineering PMI**

**Drawings By:**

**Noor Azhar**

**Tested and Reported By:**

**Alfredo Lopez**



## Typical Characteristics ON PA-218-45-5-10W-24V-SFF

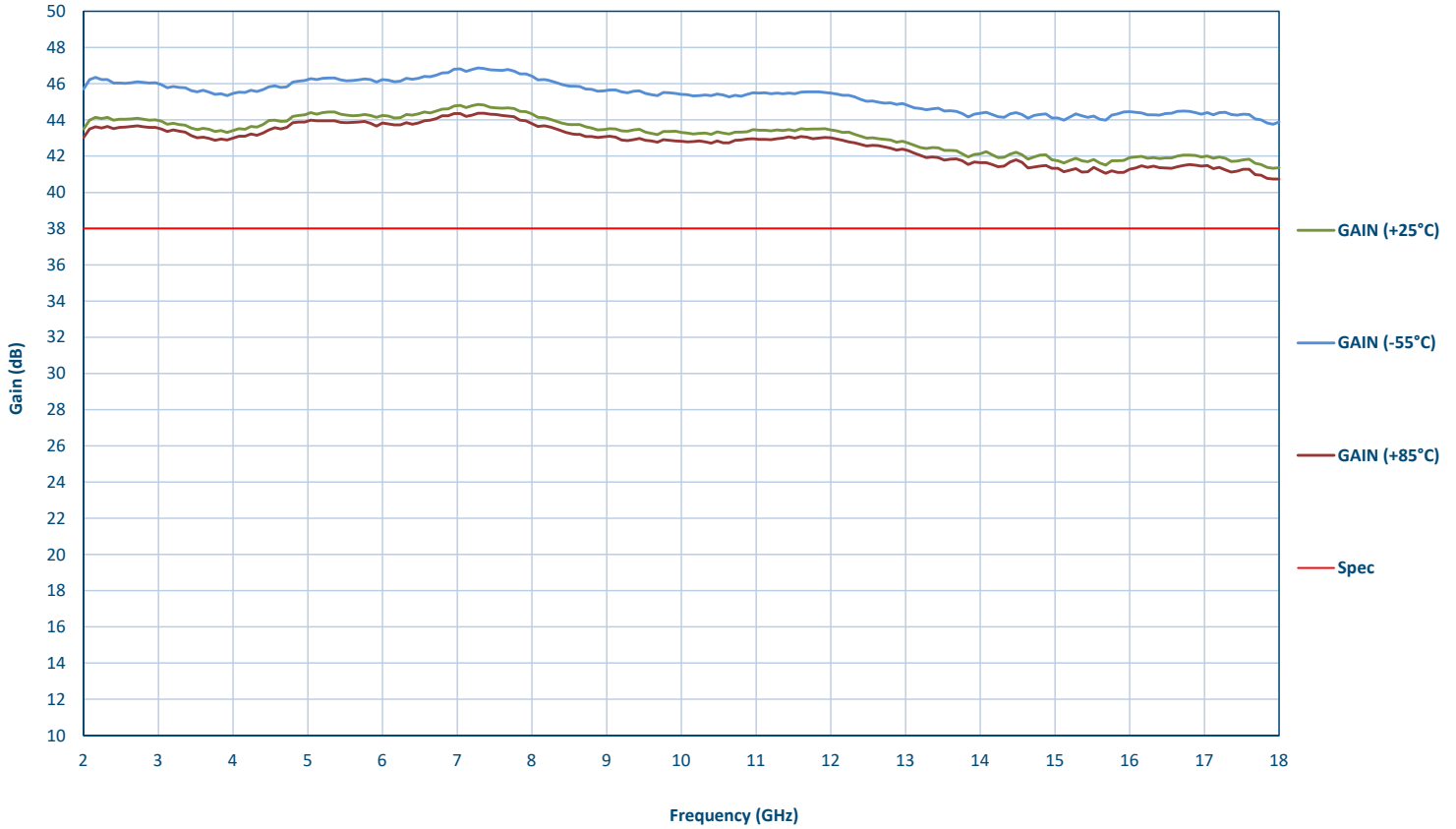
### Technical Specifications

TEST. ITEM NO	PARAMETERS	SPECIFIED VALUE	Test Results			QA QC
			+25°C	-55°C	+85°C	
1	Frequency Range:	2.0 - 18.0 GHz	2.0 - 18.0 GHz	2.0 - 18.0 GHz	2.0 - 18.0 GHz	
2	Gain:	48 dB Max. 38 dB Min.	44.86 dB Max. 41.33 dB Min. See Graph	46.86 dB Max. 43.76 dB Min. See Graph	44.38 dB Max. 40.74 dB Min. See Graph	
3	Gain Flatness:	±2.5 dB Max.	1.76 dB See Graph	1.55 dB See Graph	1.82 dB See Graph	
4	VSWR: (Input)	2.0:1 Max.	1.92 :1 See Graph	1.89 :1 See Graph	1.94 :1 See Graph	
5	VSWR: (Output)	2.2:1 Max.	2.12 :1 See Graph	2.13 :1 See Graph	2.12 :1 See Graph	
6	Noise Figure:	5.5 dB Max	4.36 dB See Graph	3.74 dB See Graph	5.06 dB See Graph	
7	Saturated Output Power (PSAT):	10 W Min. (+40 dBm)	+43.13 dBm Max.	+43.75 dBm Max.	+42.71 dBm Max.	
			+40.36 dBm Min. See Graph	+41.36 dBm Min. See Graph	+40.23 dBm Min. See Graph	
8	Maximum Input Power:	+23 dBm Max.	Pass			
9	DC Supply:	+24 VDC @ 3.9 A Max. (No RF Signal) @ 4.5 A Max. (Psat)	+24 VDC @3.75 A.(No RF) @4.40 A.(Psat)	+24 VDC @3.6 A.(No RF) @4.35 A.(Psat)	+24 VDC @3.85 A.(No RF) @4.47 A.(Psat)	

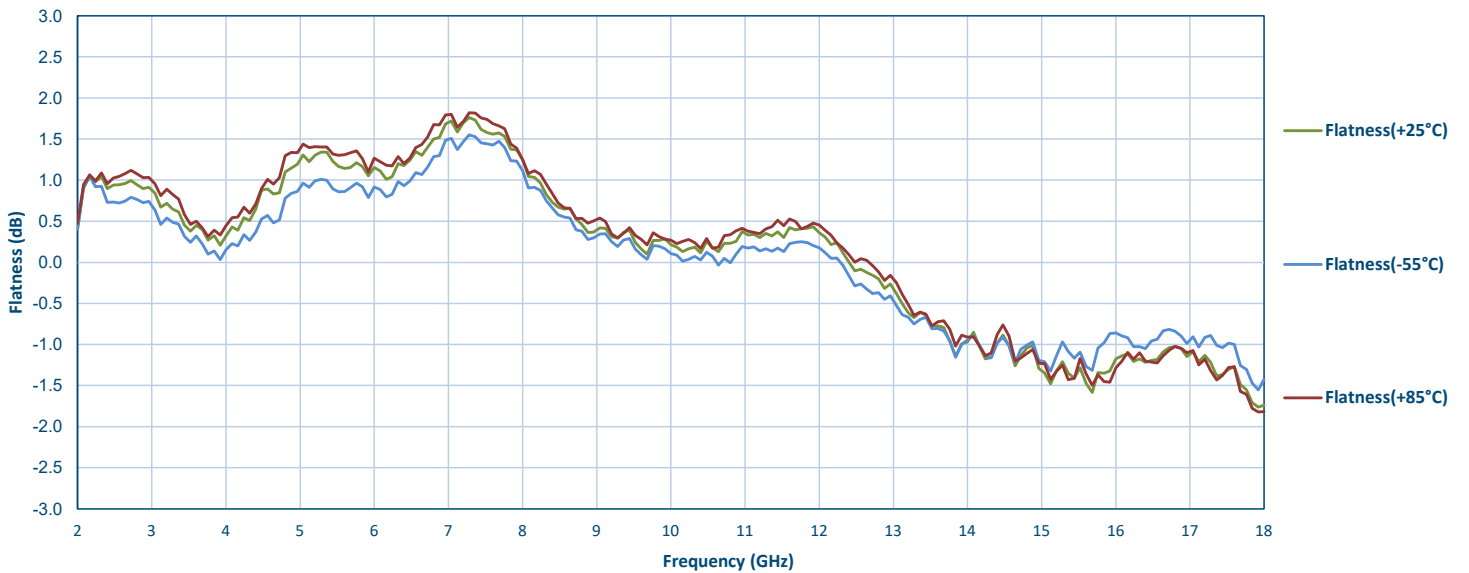
- Notes**
1. Set the constant temperature on the unit within the specified range (Unit not to exceed +85°C housing, heat sintering required)
  2. Set the Voltage at +24VDC

# Typical Characteristics ON PA-218-45-5-10W-24V-SFF

### Gain Vs Temperature

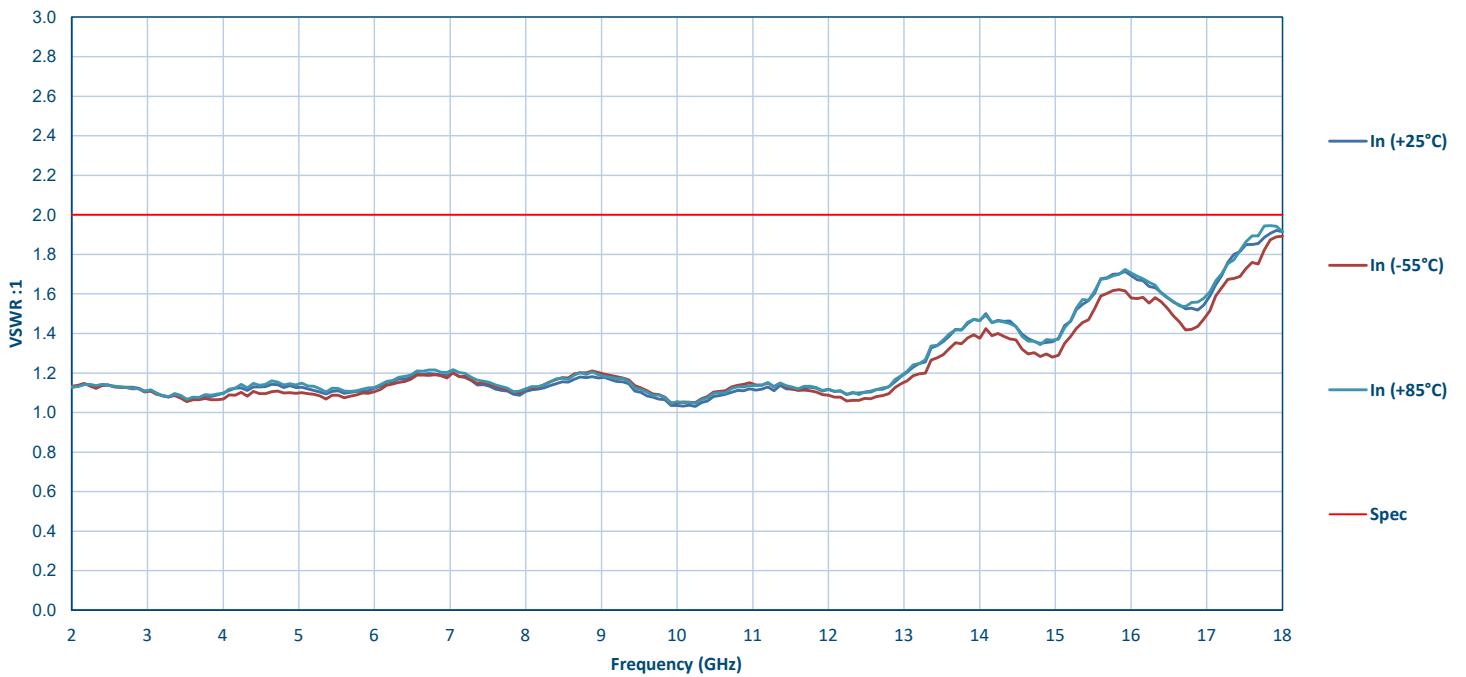


### Gain Flatness Vs Temperature

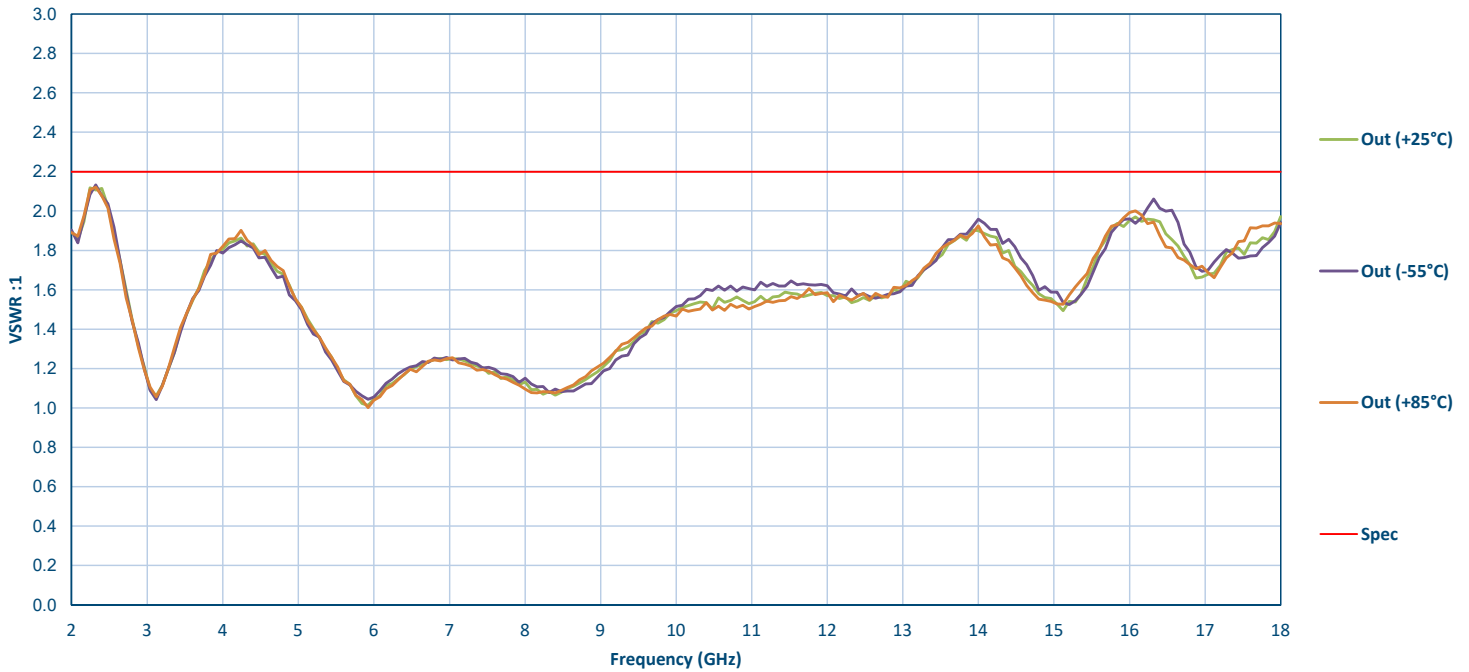


# Typical Characteristics ON PA-218-45-5-10W-24V-SFF

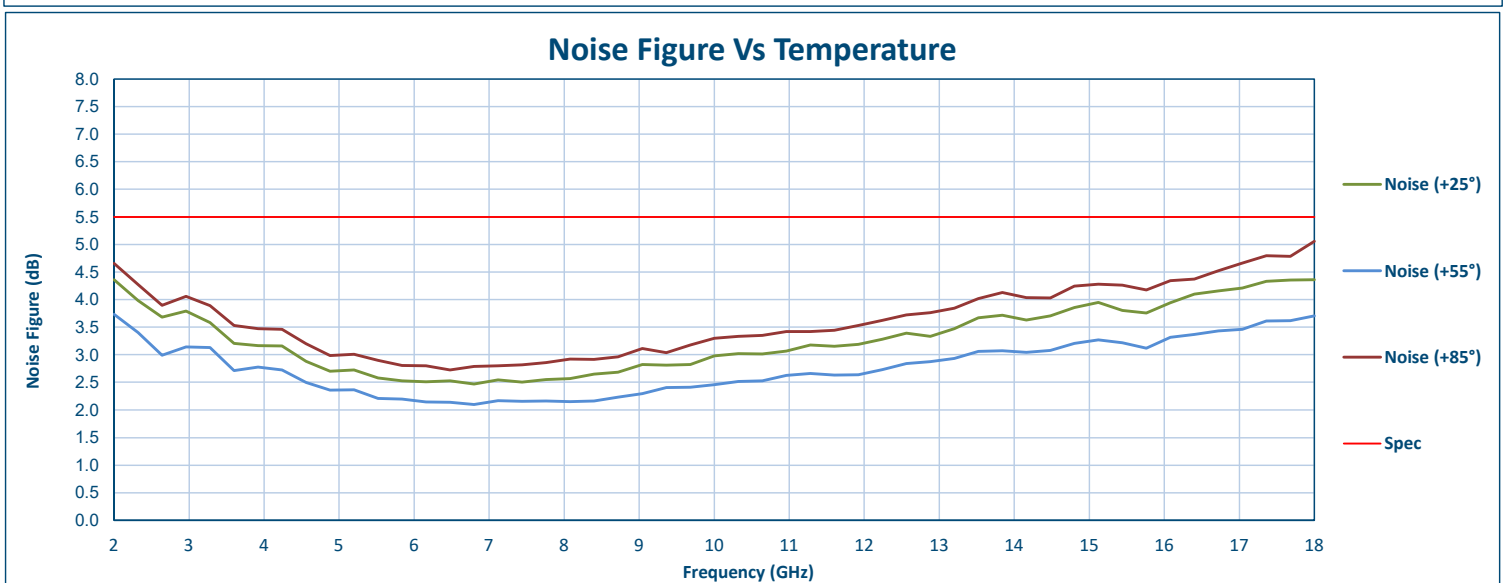
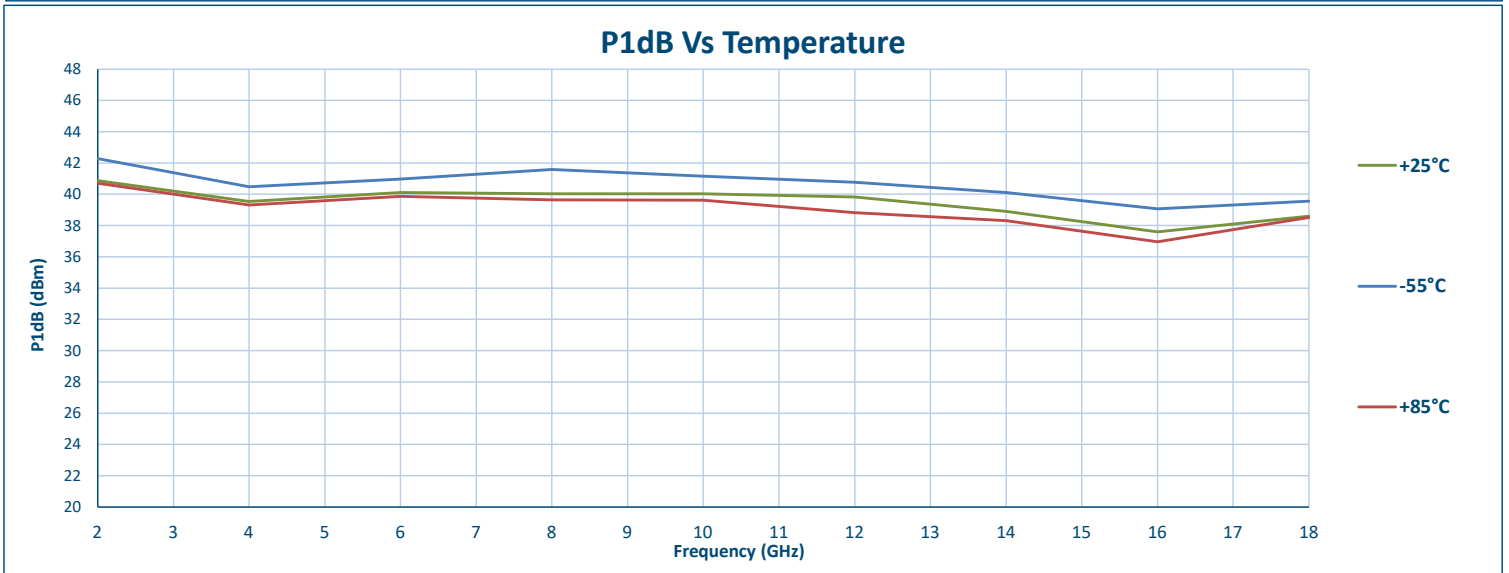
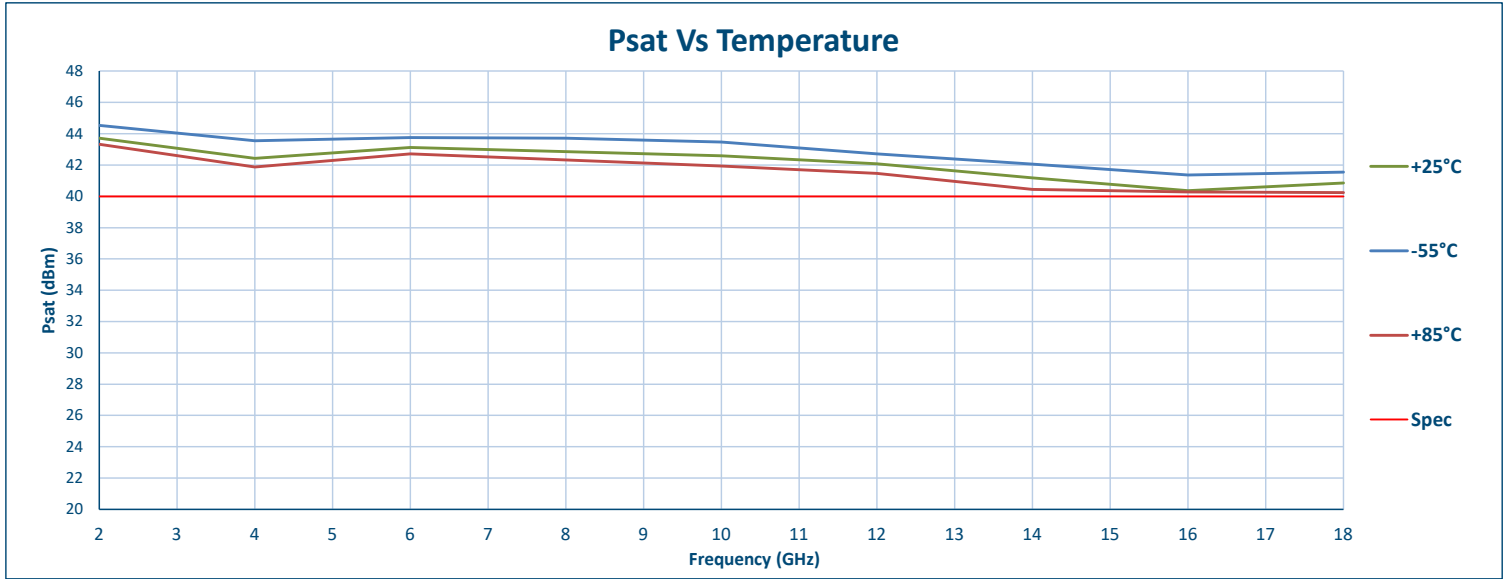
### VSWR In Vs Temperature



### VSWR out Vs Temperature

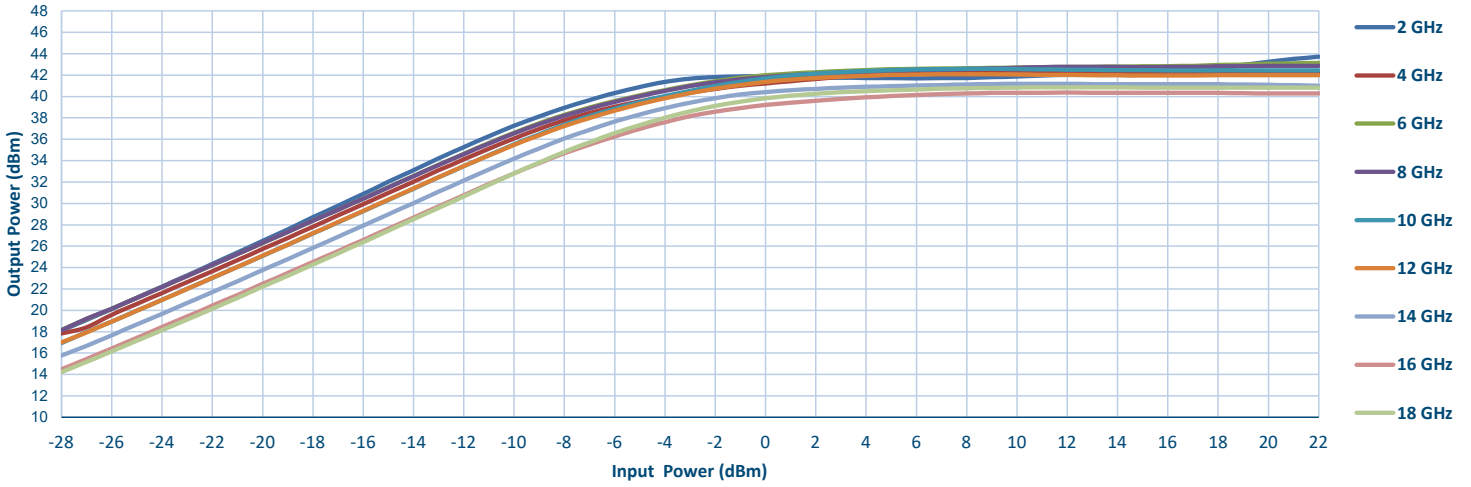


# Typical Characteristics ON PA-218-45-5-10W-24V-SFF

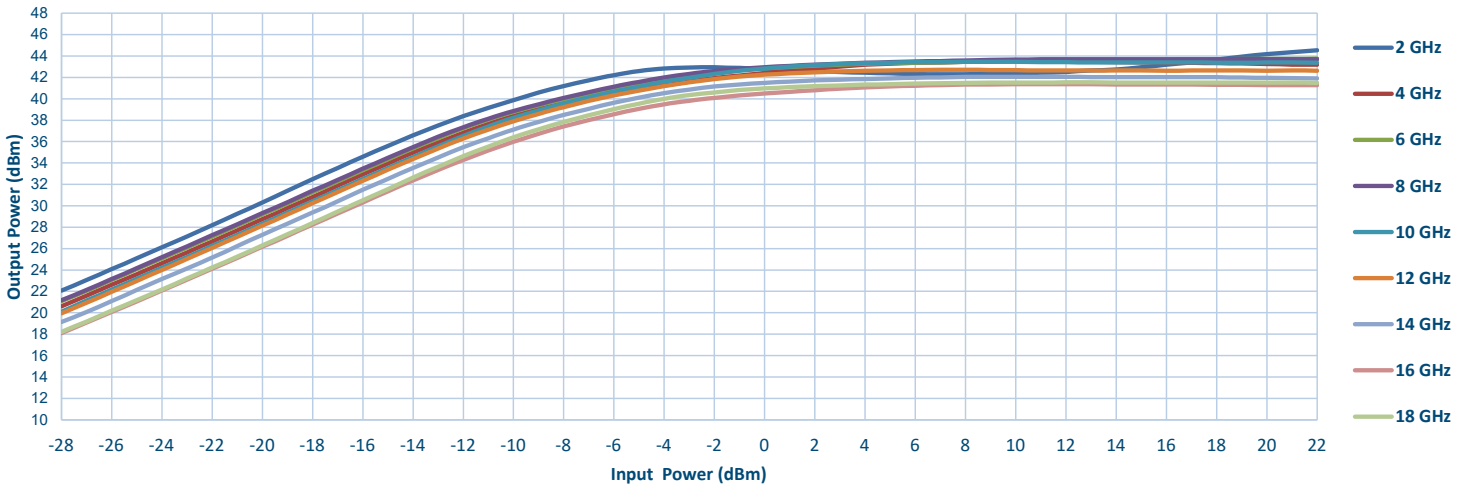


# Typical Characteristics ON PA-218-45-5-10W-24V-SFF

### Input Power Vs Output Power (+25°C)



### Input Power Vs Output Power (-55°C)



### Input Power Vs Output Power (+85°C)

