

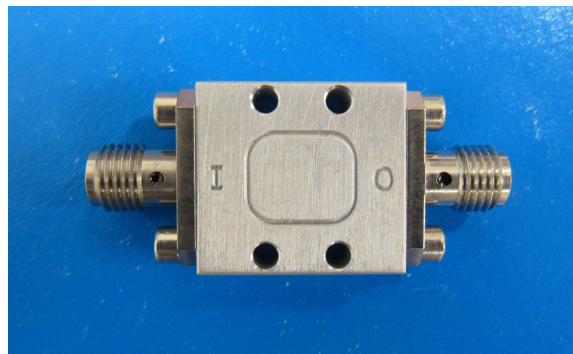
**LMT Series**

**1 - 800MHz Power Limiter**

**Features**

- Input Frequency: 1 – 800MHz
- Insertion Loss: 0.1dB
- P<sub>1dB</sub> Limiting Threshold: +14dBm
- Input IP3: +32dBm
- Response/Recovery Time: 2ns
- SMA Connector

**Picture**



**Description**

LMT-1 is a power limiter operates with frequency range from 1 to 800MHz.

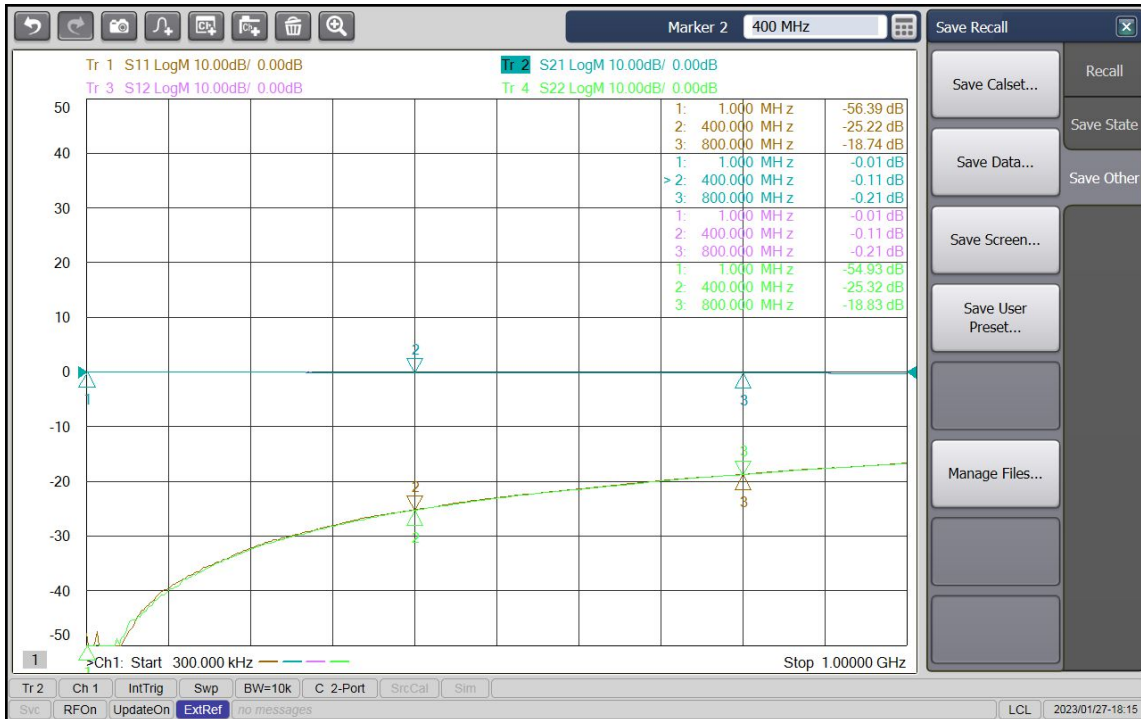
**Electrical Specifications @ +25 °C, Z<sub>IN</sub> = Z<sub>OUT</sub> = 50 Ω**

Parameter	Unit	Minimum	Typical	Maximum
Frequency Range	MHz	1		800
Insertion Loss				
f =1MHz	dB		0.05	0.1
f =400MHz	dB		0.1	0.2
f =800MHz	dB		0.2	0.4
P <sub>1dB</sub> Limiting Threshold				
f =1MHz	dBm		+5	
f =400MHz	dBm		+14	
f =800MHz	dBm		+18	
Leakage Power @ P <sub>in</sub> =+30dBm				
f =1MHz	dBm		+12	+15
f =400MHz	dBm		+18	+20
f =800MHz	dBm		+20	+23
Input IP3	dBm		+32	
IM3	dB		-62	
Response/Recovery Time	ns		2	4
VSWR Input			1.2:1	1.4:1
VSWR Output			1.2:1	1.4:1

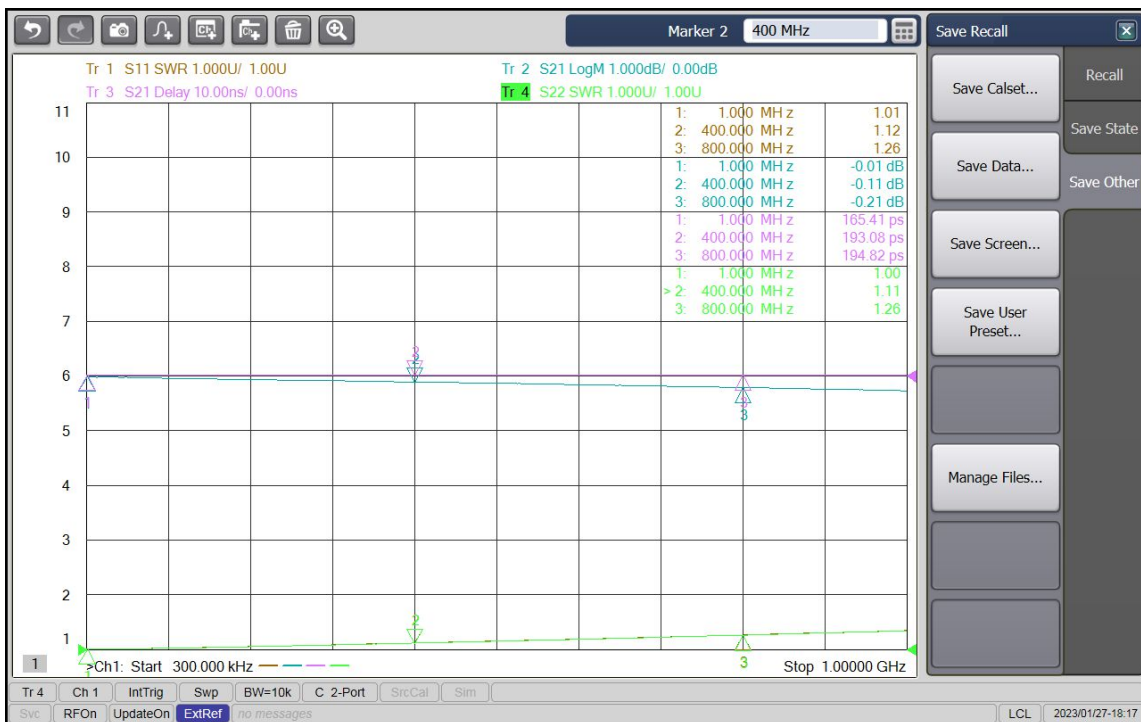
**LMT Series**

**1 - 800MHz Power Limiter**

**Insertion Loss S21, S12, Return Loss S11, S22 vs Frequency**



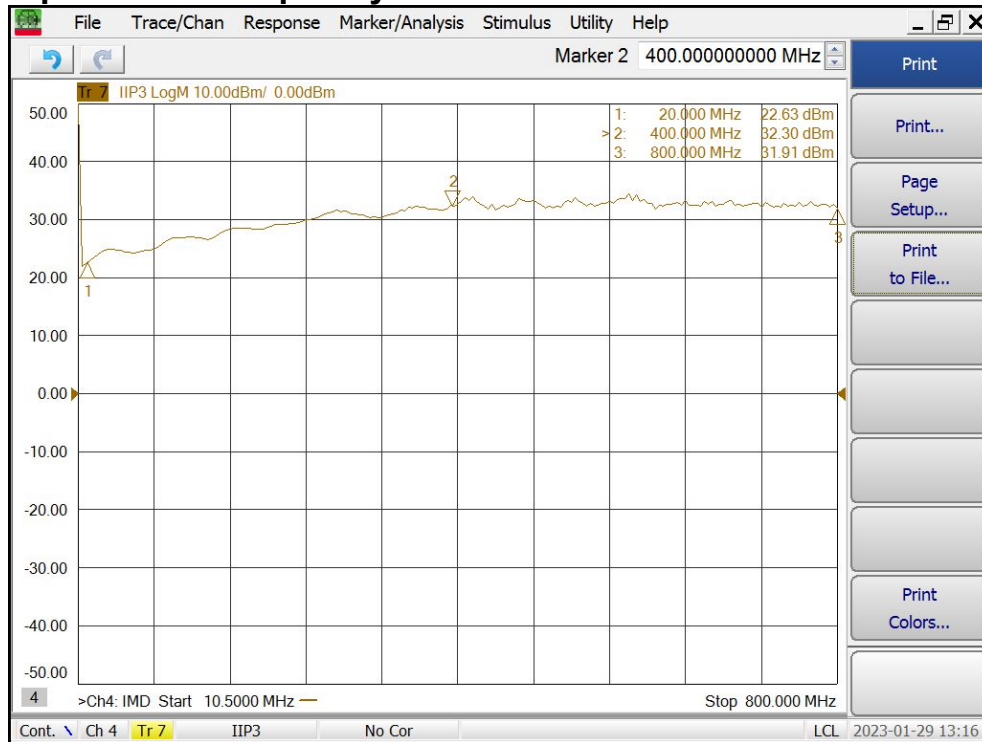
**Insertion Loss S21, Group Delay, VSWR S11, S22 vs Frequency**



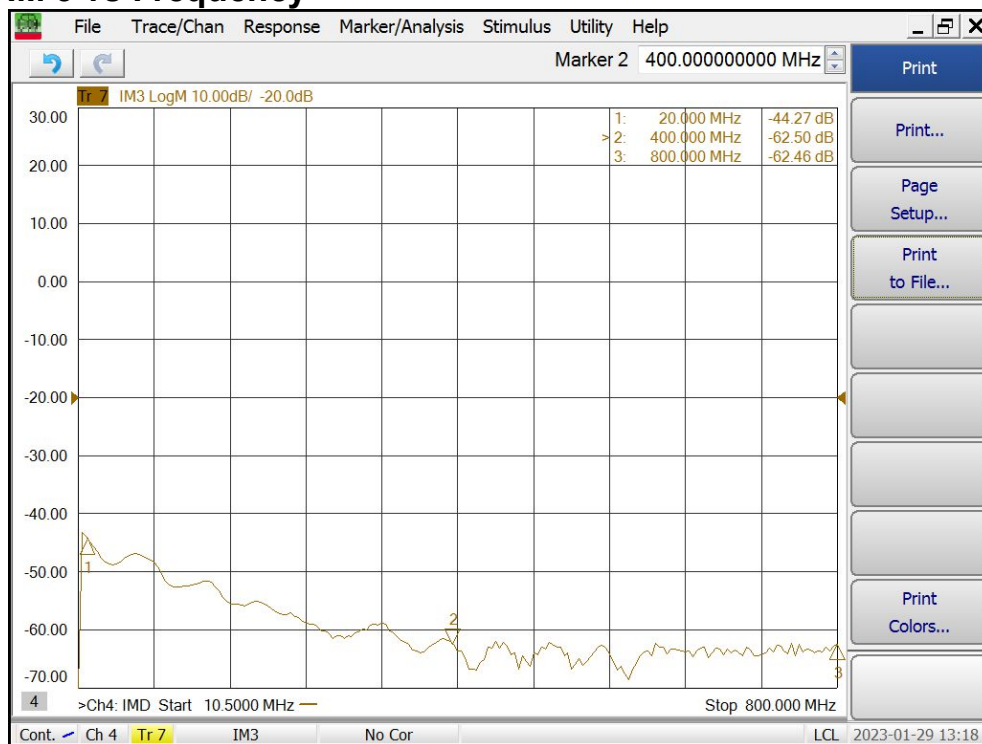
## LMT Series

## 1 - 800MHz Power Limiter

### Input IP3 vs Frequency



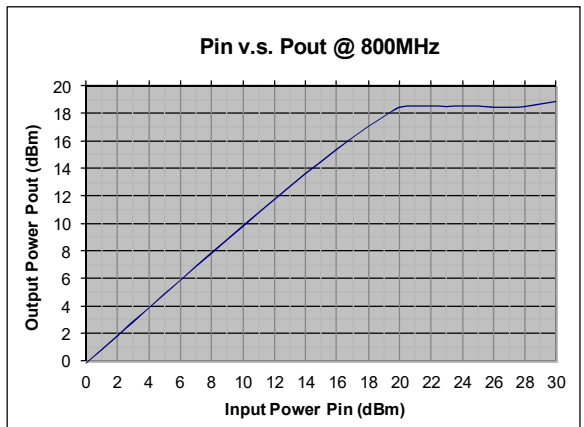
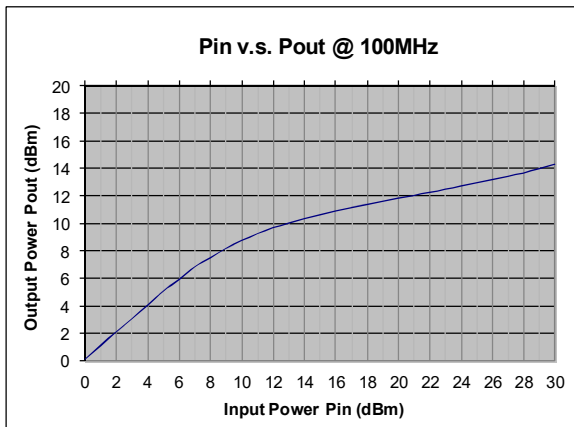
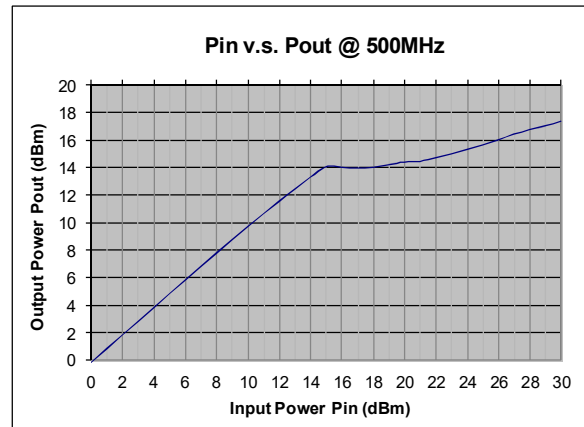
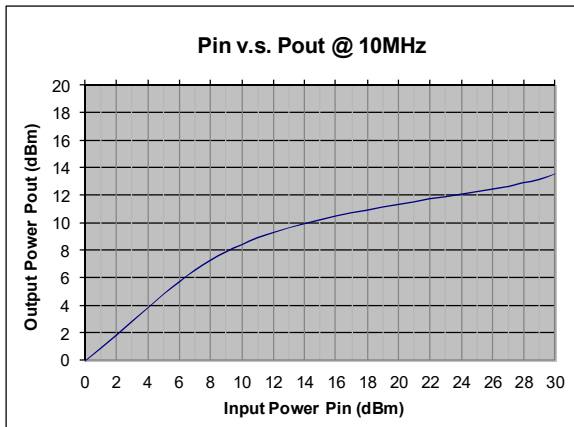
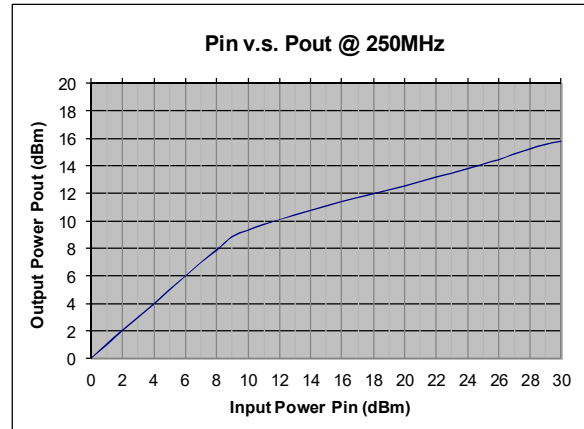
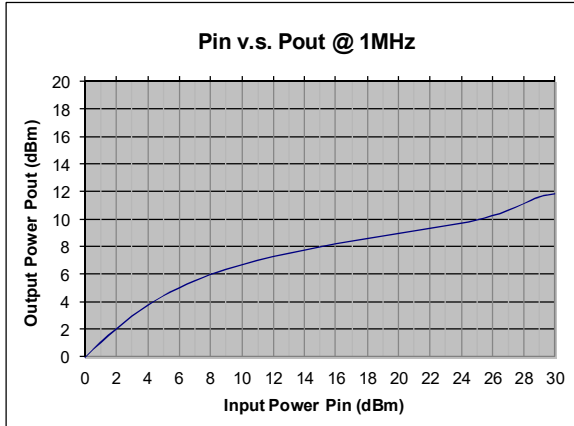
### IM 3 vs Frequency



**LMT Series**

**1 - 800MHz Power Limiter**

**Typical Performance @ +25 °C**



## LMT Series

## 1 - 800MHz Power Limiter

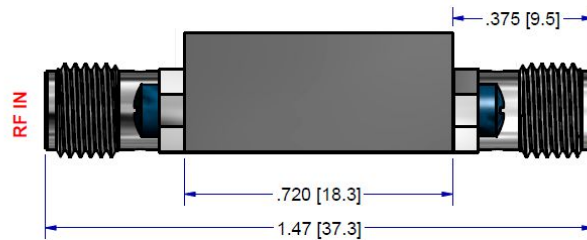
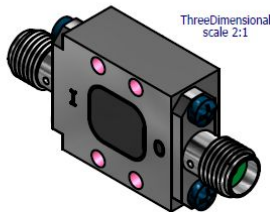
### Absolute Maximum Ratings

Parameter	Absolute Maximum
RF Input Power CW	+33dBm
DC Voltage on I/O Port	0V
Operating Temperature	-40 °C to +85 °C
Storage Temperature	-55 °C to +125 °C

### ESD Sensitive Material



### Outline



RF Connectors (2 PL.):  
 SMA-F, SuperSMA-F, or TypeK  
 (2.92mm/SMK)-F: According to  
 frequency (upto 18, 26, 40GHz).

