

# +10 to +20dBm Limiter

# VLM-52+

50Ω Broadband 10 to 500 MHz



## Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Input Power	100mW

Permanent damage may occur if any of these limits are exceeded.

## Features

- wideband, 10 to 500 MHz

## Applications

- military, hi-rel applications
- stabilizing generator outputs
- reducing amplitude variations

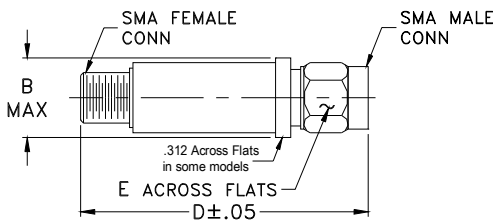
CASE STYLE: FF704

Connectors	Model
SMA	VLM-52-S+

### +RoHS Compliant

The +Suffix identifies RoHS Compliance. See our web site for RoHS Compliance methodologies and qualifications

## Outline Drawing



## Outline Dimensions (inch/mm)

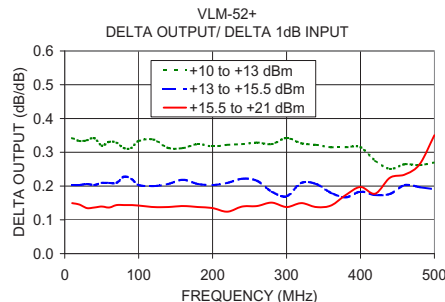
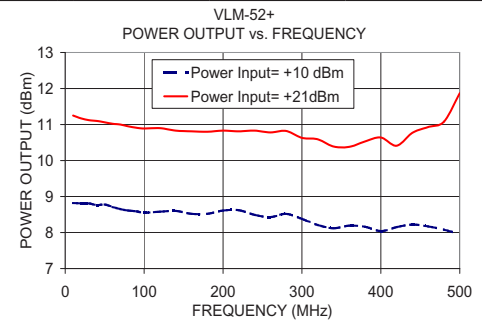
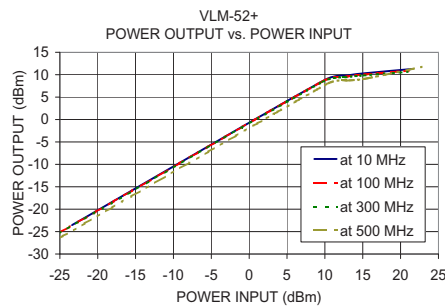
B	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

## Electrical Specifications

Parameter	Condition	Min.	Typ.	Max.	Units
Frequency Range		10		500	MHz
Low Input Power Insertion Loss			0.5	1.9	dB
Input Power Limiting Range		+10		+20	dBm
Output Power			+9.5		dBm
Limiting Δ Output/1dB Δ Input	Input Power Range (dBm)				
	9.5 to 12.5		0.30		dB/dB
	12.5 to 15		0.20		
	15 to 20		0.14		

## Typical Performance Data

Freq. (MHz)	Low drive Ins. Loss (dB)	Power Output (dBm)				Δ Output 1dB Δ Input		
		+10 dBm Input	+13 dBm Input	+15.5 dBm Input	+21.3 dBm Input	+10 to +13 dBm Input	+13 to +15.5 dBm Input	+15.5 to +21 dBm Input
10.00	-0.15	8.82	9.86	10.37	11.25	0.34	0.20	0.15
30.00	-0.17	8.81	9.82	10.34	11.12	0.34	0.21	0.13
60.00	-0.15	8.71	9.70	10.23	11.02	0.33	0.21	0.14
70.00	-0.15	8.65	9.63	10.16	11.00	0.33	0.21	0.14
90.00	-0.16	8.59	9.50	10.07	10.91	0.31	0.22	0.14
100.00	-0.19	8.55	9.55	10.06	10.89	0.33	0.20	0.14
120.00	-0.25	8.58	9.60	10.10	10.90	0.34	0.20	0.14
180.00	-0.51	8.52	9.48	10.00	10.80	0.32	0.21	0.14
200.00	-0.57	8.61	9.54	10.05	10.83	0.32	0.20	0.13
220.00	-0.58	8.62	9.57	10.10	10.81	0.32	0.21	0.12
240.00	-0.55	8.49	9.45	10.02	10.83	0.32	0.22	0.14
260.00	-0.46	8.43	9.41	9.96	10.78	0.33	0.22	0.14
300.00	-0.30	8.38	9.42	9.83	10.63	0.34	0.17	0.14
360.00	-0.54	8.19	9.11	9.55	10.38	0.32	0.18	0.14
380.00	-0.77	8.16	9.08	9.48	10.53	0.32	0.17	0.17
400.00	-1.01	8.04	8.96	9.41	10.64	0.32	0.18	0.20
440.00	-1.42	8.22	8.89	9.32	10.77	0.25	0.18	0.22
480.00	-1.48	8.08	8.79	9.28	11.08	0.26	0.20	0.26
500.00	-1.35	7.96	8.70	9.17	11.87	0.27	0.19	0.35



### Notes

- Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.
- Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
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