

+10 to +20dBm Limiter

50Ω Broadband 10 to 500 MHz

VLM-52+



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

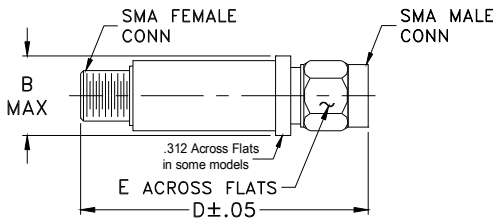
CASE STYLE: FF704

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)

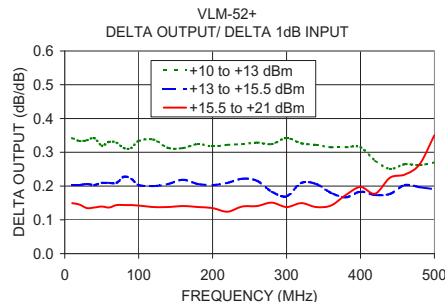
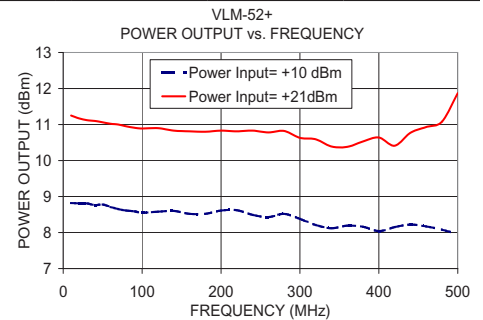
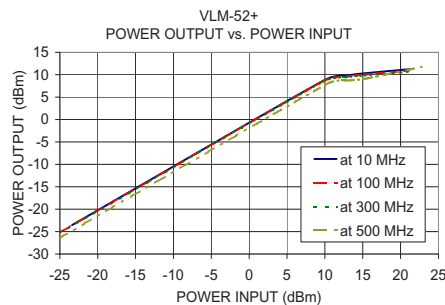
B	D	E	wt
.410	1.43	.312	grams
10.41	36.32	7.92	10.0

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 12.5 to 15 15 to 20		0.30 0.20 0.14		dB/dB

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

- A. 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.
B. Electrical specifications and performance data contained in this specification document are based on Mini-Circuit's applicable established test performance criteria and measurement instructions.
C. The parts covered by this specification document are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp



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