

STANDARD PRODUCTS

DESCRIPTION

This line of solid state PIN diode matched variable attenuator are manufactured using standard CMC design and assembly techniques which have proven to surpass even the most stringent military requirements. Field replaceable connectors on a drop-in package allow for an easy transition from cabled breadboard to microstrip or stripline sub-system integration.

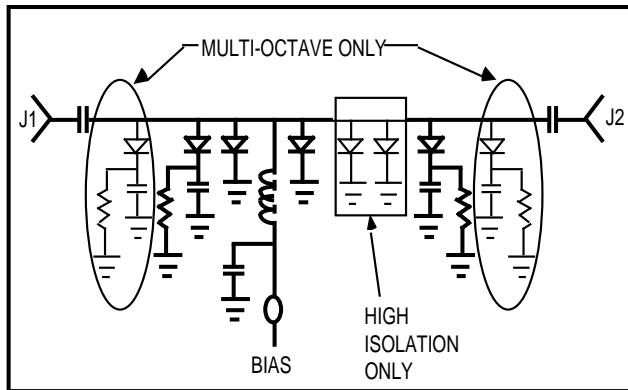
ATTENUATOR

Matched Variable

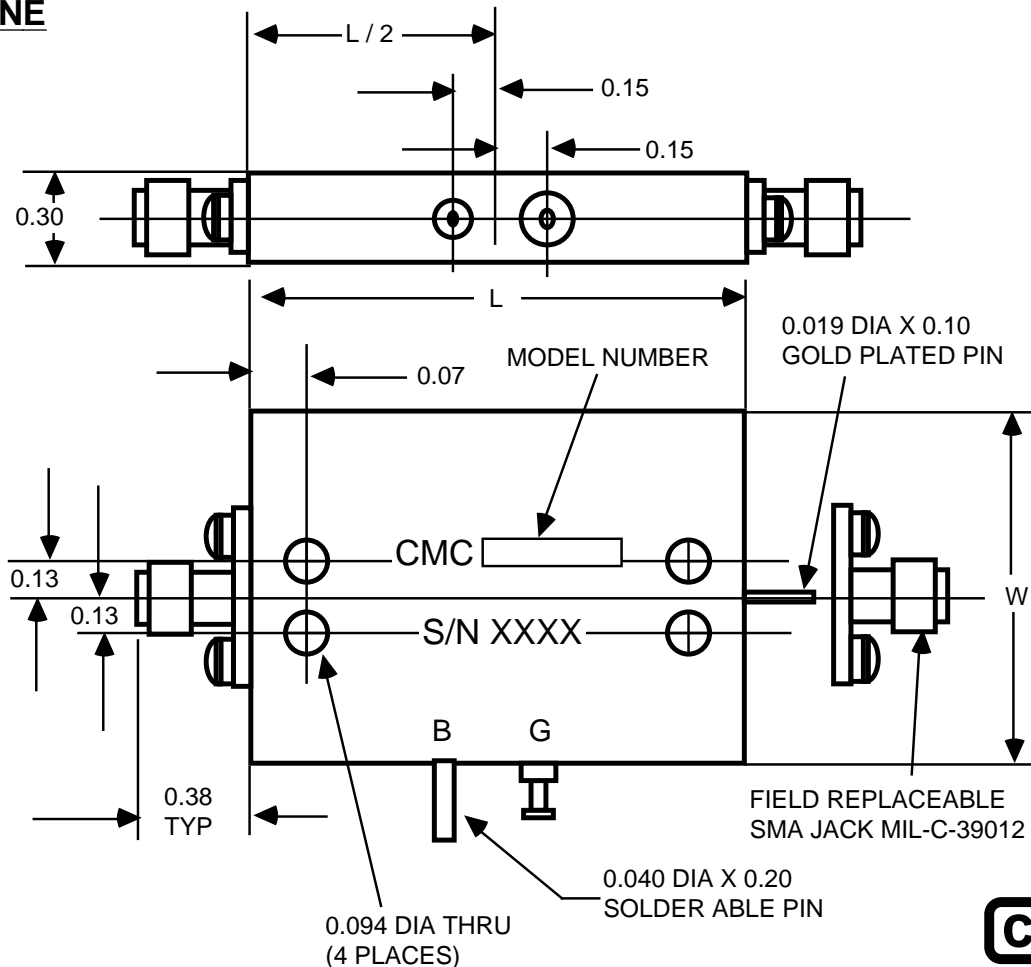
ENVIRONMENTAL RATINGS

- Temperature:
 Operating ——— -55°C to +85°C
 Non-operating — -65°C to +125°C
- Humidity:
 MIL-STD-202C, Method 103B,
 Cond. B (96 hrs. at 95%)
- Vibration:
 MIL-STD-202C, Method 204A,
 Cond. B (0.06" double amplitude
 or 15G, whichever is less)
- Altitude:
 MIL-STD-202C, Method 105C,
 Cond. B (50,000ft)
- Temp Cycling:
 MIL-STD-202C, Method 105C,
 Cond. D, 5 cycles
- Shock:
 MIL-STD-202C, Method 213,
 Cond. B (750G, 6ms)

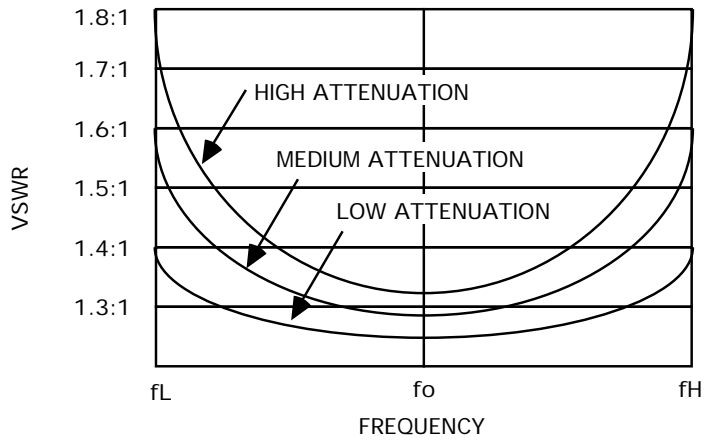
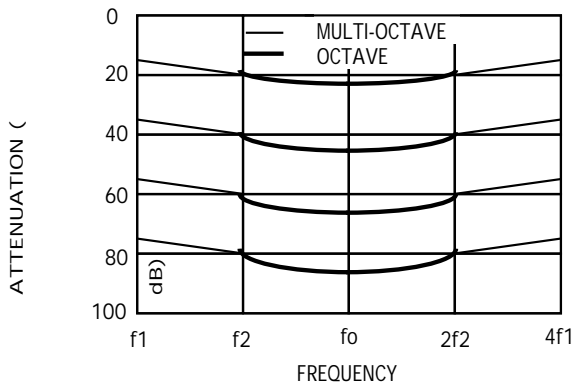
SCHEMATIC



OUTLINE



ELECTRICAL PERFORMANCE



Bandwidth	Frequency Range (dB) GHz	Dynamic Range (dB)	VSWR		Insertion Loss (dB)	Dimensions (in.)		Model Number
			Loss State	Atten State		L	W	
Octave	0.5 - 1.0	30	1.3	1.8	1.3	1.75	1.0	V0019
	1.0 - 2.0	30	1.4	1.8	1.1	1.50	1.0	V0020
	2.0 - 4.0	30	1.5	1.8	1.1	1.25	1.0	V0021
	4.0 - 8.0	30	1.6	1.8	1.3	1.25	0.65	V0022
	8.0 - 12.0	30	1.7	1.6	1.4	1.25	0.65	V0023
	12.0 - 18.0	30	1.8	1.6	1.7	1.00	0.65	V0024
Multi-Octave	0.5 - 2.0	30	1.4	1.8	1.8	2.25	1.0	V0025
	1.0 - 4.0	30	1.6	1.8	1.4	1.50	1.0	V0026
	2.0 - 8.0	30	1.8	1.8	1.8	1.50	0.65	V0027
	5.0 - 18.0	30	2.0	2.0	2.3	1.50	0.65	V0028
Octave	0.5 - 1.0	55	1.3	1.8	1.6	2.25	1.0	V0029
	1.0 - 2.0	55	1.4	1.8	1.4	2.00	1.0	V0030
	2.0 - 4.0	55	1.5	1.8	1.3	1.50	1.0	V0031
	4.0 - 8.0	55	1.6	1.8	1.5	1.50	0.65	V0032
	8.0 - 12.0	55	1.7	1.6	1.6	1.50	0.65	V0033
	12.0 - 18.0	55	1.8	1.6	1.9	1.25	0.65	V0034
Multi-Octave	0.5 - 2.0	50	1.4	1.8	2.0	2.50	1.0	V0035
	1.0 - 4.0	50	1.6	1.8	1.6	1.75	1.0	V0036
	2.0 - 8.0	50	1.8	1.8	2.0	1.75	0.65	V0037
	5.0 - 18.0	50	2.0	2.0	2.5	1.75	0.65	V0038
Octave	0.5 - 1.0	80	1.3	1.8	2.0	3.00	1.0	V0039
	1.0 - 2.0	80	1.4	1.8	1.6	2.50	1.0	V0040
	2.0 - 4.0	80	1.5	1.8	1.5	1.50	1.0	V0041
	4.0 - 8.0	80	1.6	1.8	1.7	1.50	0.65	V0042
	8.0 - 12.0	80	1.7	1.6	1.9	1.50	0.65	V0043
	12.0 - 18.0	80	1.8	1.6	2.2	1.50	0.65	V0044
Multi-Octave	0.5 - 2.0	75	1.4	1.8	2.3	3.00	1.0	V0045
	1.0 - 4.0	75	1.6	1.8	1.8	2.00	1.0	V0046
	2.0 - 8.0	75	1.8	1.8	2.2	2.00	0.65	V0047
	5.0 - 18.0	75	2.0	2.0	2.8	2.00	0.65	V0048

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