

Attenuator Pads

MAT Series Datasheet

General Information

These fixed attenuator chips are fabricated using our state of the art thin film metallization and advanced photolithography technology.

All devices are available in chip form with a metallized ground connection on the back. This ground is wrapped around on the four corners of the chip so additional ground bonding ribbon is not required.

The chips may be attached using conductive epoxy or solder preform. Gold contacts on the input and output pads make assembly, using standard bonding equipment, fast and reliable. Custom values and configuration available on request.

Electrical Characteristics

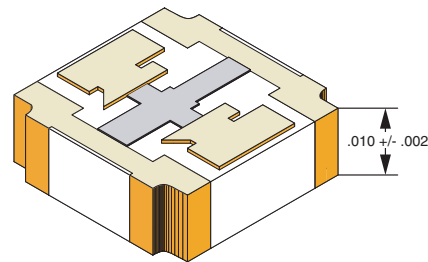
Part Number	Attn. (dB)	IL (dB)	RL (dB)
MAT10010	1	+/- 0.30	>18
MAT10020	2	+/- 0.30	>18
MAT10030	3	+/- 0.30	>18
MAT10040	4	+/- 0.30	>18
MAT10050	5	+/- 0.30	>18
MAT10060	6	+/- 0.35	>18
MAT10070	7	+/- 0.35	>18
MAT10080	8	+/- 0.35	>18
MAT10090	9	+/- 0.35	>18
MAT10100	10	+/- 0.35	>18
MAT10110	11	+/- 0.40	>18
MAT10120	12	+/- 0.40	>18
MAT10130	13	+/- 0.40	>18
MAT10140	14	+/- 0.40	>18
MAT10150	15	+/- 0.40	>18
MAT10160	16	+/- 0.50	>18
MAT10170	17	+/- 0.50	>18
MAT10180	18	+/- 0.50	>18
MAT10190	19	+/- 0.50	>18
MAT10200	20	+/- 0.50	>18
MAT10210	21	+/- 0.60	>18
MAT10220	22	+/- 0.60	>18
MAT10230	23	+/- 0.60	>18
MAT10240	24	+/- 0.60	>18
MAT10250	25	+/- 0.60	>18
MAT10260	26	+/- 1.00	>18
MAT10270	27	+/- 1.00	>18
MAT10280	28	+/- 1.00	>18
MAT10290	29	+/- 1.00	>18
MAT10300	30	+/- 1.00	>18



Features

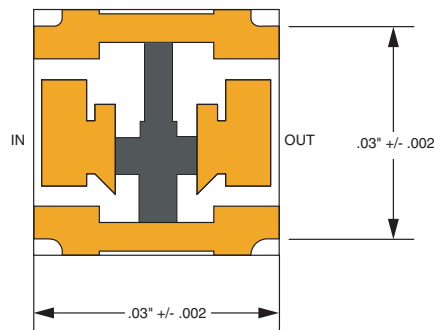
- DC to 40 GHz
- Medium Power Handling 2W CW
- Flat Response From DC to 40 GHz
- Return Loss > 18 dB DC to 12 GHz
- Return Loss > 16 dB 13 to 40 GHz
- Space Saving Footprint .030" X .030" (762 X .762mm)
- Very Good Stability Over Temperature (TCR < 100 PPM)
- Ground Wrap to Top (No ground bonding required)

Physical Dimensions



Front to Back Metallization in Four Places

Aeroflex / Metelics Attenuator Pad



Front to Back Metallization in Four Places
Bonding Pad Sizes and Resistor Outline
may differ from value to value



Back Side



Aeroflex / Metelics, Inc.

ISO 9001:2008 certified companies

54 Grenier Field Road, Londonderry, NH 03053
Tel: (603) 641-3800
Sales: (888) 641-SEMI (7364)
Fax: (603)-641-3500
975 Stewart Drive, Sunnyvale, CA 94085
Tel: (408) 737-8181
Fax: (408) 733-7645



www.aeroflex.com/metelics metelics-sales@aeroflex.com

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