



797

INSTRUMENTATION
WIDE BAND TAPE
THE INDUSTRY STANDARD FOR
25 YEARS IN ANALOG
APPLICATIONS WHERE EXACTING
PERFORMANCE IS REQUIRED

PRODUCT OVERVIEW

Quantegy 797 utilizes a unique formulation that yields consistently reliable electrical output, dropout, durability and abrasivity performance. Historically consistent performance has proven 797 to be entirely compatible with all existing analog wideband hardware. Quantegy 797 meets and exceeds all requirements in federal specification W-T-1553B and Ft. Meade specification L14-3.

PRODUCT FEATURES

- Meets or exceeds W-T-1553B and L14-3
- Formulated for optimum runability and maximum performance
- Exceptionally low instantaneous non-uniformity or dropouts
- Unique Quantegy packaging provides maximum product protection

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797

INSTRUMENTATION WIDE BAND TAPE

797 TECHNICAL DATA

Magnetic Properties

| | |
|-----------------------|----------------------------|
| Coercivity | 345 ±5% Oe (27.5 ±5% kA/m) |
| Retentivity | 1400 ±10% Gs (140 ±10% mT) |
| Erasure Field (60 dB) | 1000 Oe (79.7 kA/m) |

Physical Properties

| | |
|-----------------------|---------------------------|
| Standard Width: | |
| 1/2" | 0.498" ± 0.001" (12.7 mm) |
| 1" | 0.998" ± 0.001" (25.5 mm) |
| Nominal Thickness: | |
| Base Film (polyester) | 1000 μ" (25.3 μm) |
| Oxide Coating | 200 μ" (5.1 μm) |
| Backcoating | 40 μ" (1.0 μm) |
| Total | 1240 μ" (31.4 μm) |

Performance Properties

| | |
|-------------------------------|---|
| Sensitivity | |
| 200 kHz 120 IPS | 0 ± 1.0 dB |
| Wavelength Response | |
| 1000 μ" (25.3 μm) | 0 ± 1.0 dB |
| 250 μ" (6.3 μm) | 0 ± 1.0 dB |
| 125 μ" (3.2 μm) | 0 ± 1.0 dB |
| 100 μ" (2.5 μm) | 0 ± 1.0 dB |
| 80 μ" (2.1 μm) | 0 ± 1.5 dB |
| 60 μ" (1.5 μm) | 0 ± 2.0 dB |
| Backcoat Resistivity | 2 x 10 ⁶ Ohms/sq |
| Uniformity, Long & Short Term | 2.0 max. dB |
| Instantaneous Nonuniformity | <5 Avg. # per 100' Center Track <10 Avg. # per 100' Edge Track |

Environmental Properties

| | |
|----------------------|--------------------------------------|
| Operating Conditions | 40° - 120° F (4° - 49° C); 35-65% RH |
| Storage Conditions | 40° - 90° F (4° - 32° C); <40% RH |

797 CONFIGURATIONS

| Catalog Number | Description | Reel Size | | Tape Length | | Carton Weight | | Carton Quantity |
|----------------|---|-----------|-------|-------------|----------|---------------|-------|-----------------|
| | | Inches | / mms | Feet | / Meters | Lbs | / Kgs | |
| 797-15DW11 | .25" x 2300', 7" plastic reel | .25 x 7 | 18 | 2300 | 701 | 17.2 | 7.78 | 20 |
| 797-26GW11 | .5" x 2300', 8" Al precision reel | .5 x 8 | 20 | 2300 | 701 | 18.3 | 8.31 | 7 |
| 797-27GJ11 | .5" x 4600', 10.5" HD Al precision reel | .5 x 10.5 | 27 | 4600 | 1402 | 27.7 | 12.57 | 7 |
| 797-29GK11 | .5" x 9200', 14" HD Al precision reel | .5 x 14 | 36 | 9200 | 2804 | 50.6 | 22.97 | 7 |
| 797-56GW11 | 1" x 2300', 8" HD Al precision reel | 1 x 8 | 20 | 2300 | 701 | 19.3 | 8.79 | 5 |
| 797-57GJ11 | 1" x 4600', 10.5" HD Al precision reel | 1 x 10.5 | 27 | 4600 | 1402 | 30.5 | 13.83 | 5 |
| 797-58GJ11 | 1" x 7200', 12.5" HD Al precision reel | 1 x 12.5 | 32 | 7200 | 2195 | 45.4 | 20.59 | 5 |
| 797-59GK11 | 1" x 9200', 14" HD Al precision reel | 1 x 14 | 36 | 9200 | 2804 | 55.2 | 25.06 | 5 |
| 797-5AG111 | 1" x 10800', 15" HD Al precision reel | 1 x 15 | 38 | 10800 | 3292 | 38.8 | 17.58 | 3 |

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