# **Audio**

TLA 0839 is designed to be used in a "Single Coil" hybrid configuration with the following features.

- Low loss. •
- High Return loss. .
- DC capability.

#### Applications:

Interfacing the Central Office to 900 $\Omega$  2-wire subscriber loop in a CODEC system where DC loop feed is required.



#### **MECHANICAL**





### ELECTRICAL

TLA 0839, in a 1-coil hybrid configuration, as per diagram, has the following electrical performance when terminated with specified impedances and up to 90 mA loop current.

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| Frequency Response       | > 2.0 dB<br>< 0.5 dB<br>< 0.1 dB<br>< 0.4 dB | 60 Hz<br>300 - 500 Hz<br>500 - 4000 Hz<br>4 - 10 KHz |
|--------------------------|--|--|
| Return Loss, 2-wire port | > 20 dB<br>> 15 dB                           | 300 - 3500 Hz<br>200 Hz                              |
| Longitudinal Balance     | ≥ 40 dB<br>≥ 51 dB<br>≥ 59 dB<br>≥ 65 dB     | 60 Hz<br>200 Hz<br>1000 Hz<br>3000 Hz                |
| Transhybrid Loss         | > 25 dB                                      | 300 - 4000 Hz  |
| Dielectric Strength      | 700 V rms                                    | winding to winding & Windings to core                |

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