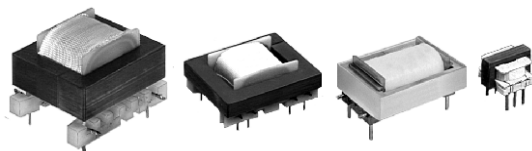




Through-Hole Transformers Audio, Telephone Coupling



FEATURES

- Designed to meet FCC Part 68.
- Underwriters Laboratories recognized component (UL Standard 1459, File E147915)
- Provide line isolation, impedance matching and line balance
- Designed and built to meet telephone company requirements for data and voice access on leased private telephone lines or through dial-up switched telephone networks
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IMPEDANCE (Ω)		COUPLING APPLICATION	UNBALANCED DC CURRENT (mA)	RETURN LOSS MIN. (dB)	INSERTION LOSSES AT 1 kHz (dB)	FREQUENCY RESPONSE REF. AT 1 kHz (dB)	IMPEDANCE MATCHING	DISTORTION	STYLE	SCHEMATIC NUMBER
	PRI	SEC									
TA-10-08	600	600	DATA/VOICE	0	26	1.0	± 0.5	$\pm 10\%$	0.5 %	C	5
TA-10-07	600	600	DATA/VOICE	0	26	1.0	± 0.5	$\pm 10\%$	0.5 %	J	5
TA-30-06	600	600	DATA/VOICE	0 to 5	14	1.5	± 1.5	$\pm 25\%$	5.0 %	J	5
TA-10-05	600	600	DATA/VOICE	0	26	0.6	± 0.5	$\pm 10\%$	0.5 %	B	5
TA-30-02	600	600	DATA/VOICE	0 to 5	15	1.4	± 1.5	$\pm 25\%$	5.0 %	B	5
TA-30-03	600	600	DATA	0 to 90	8	2.4	± 1.0	$\pm 25\%$	5.0 %	G	5
TA-32-02	600	600	DATA/VOICE	0 to 80	11	1.2	± 1.5	$\pm 25\%$	5.0 %	M	13
TA-40-01 ⁽¹⁾	600	600	DATA/VOICE	0 to 90	14	1.7	± 2.0	$\pm 20\%$	0.5 %	N	13
TA-33-02	600	600	DATA/VOICE	0 to 100	8	1.6	± 1.5	$\pm 25\%$	5.0 %	E	15
TA-30-04	600	600 CT	DATA	0 to 90	8	2.4	± 1.0	$\pm 25\%$	5.0 %	H	9
TA-10-04	600 CT	600 CT	DATA/VOICE	0	26	0.6	± 0.5	$\pm 10\%$	0.5 %	A	4
TA-30-01	600 CT	600 CT	DATA/VOICE	0 to 5	15	1.4	± 1.5	$\pm 25\%$	5.0 %	A	4
TA-31-01	600 SPLIT	600	DATA/VOICE	0 to 50	8	1.4	± 1.5	$\pm 25\%$	5.0 %	K	11
TA-32-03	600 SPLIT	600	DATA/VOICE	0 to 80	11	1.2	± 1.5	$\pm 25\%$	5.0 %	L	14
TA-13-01	600	600 SPLIT	DATA/VOICE	0 to 75	13	1.2	± 0.5	$\pm 10\%$	0.5 %	E	7
TA-33-01	600	600 SPLIT	DATA/VOICE	0 to 100	8	1.6	± 1.5	$\pm 25\%$	5.0 %	E	7
TA-10-01	600	600/600	DATA/VOICE HYBRID	0	26	0.8	± 0.5	$\pm 10\%$	0.5 %	A	1
TA-30-05	600	600/600	DATA/VOICE HYBRID	0 to 5	14	1.4	± 1.5	$\pm 25\%$	5.0 %	A	10
TA-11-01	600	600/600	DATA/VOICE HYBRID	0	26	0.8	± 0.5	$\pm 10\%$	0.5 %	D	1
TA-30-07	600	900	DATA/VOICE	0 to 5	14	1.5	± 1.5	$\pm 25\%$	5.0 %	J	2
TA-10-02	600	900	DATA/VOICE	0	26	0.7	± 0.5	$\pm 10\%$	0.5 %	B	2
TA-32-01	600/900	600	DATA/VOICE	0 to 100/0 to 120	8	1.4	± 1.5	$\pm 25\%$	5.0 %	L	12
TA-14-01	600	600/900	DATA/VOICE	0 to 100/0 to 120	14	0.5	± 0.5	$\pm 10\%$	0.5 %	F	8
TA-10-06	900	900	DATA/VOICE	0	26	0.7	± 0.5	$\pm 10\%$	0.5 %	A	6
TA-10-03	4K	600	DATA/VOICE	0	22	0.7	± 0.5	$\pm 10\%$	0.5 %	B	3
TA-23-01	600	600 SPLIT	DATA/VOICE	0 to 75	13	1.2	± 0.5	$\pm 10\%$	0.5 %	E	16

Note

⁽¹⁾ Reference for TA-40-01 is 1.8 kHz. Model TA-3 is the low-cost alternative to Model TA-1. For HOLDING COIL information, refer to MODEL TE, TD.

ELECTRICAL SPECIFICATIONS

Power Level: -45 dBm to +7 dBm except TA-40-01

(-45 dBm to +10 dBm)

Longitudinal Balance: Per FCC 68.310

60 dB minimum = 200 Hz to 1000 Hz

45 dB minimum = 1000 Hz to 4000 Hz

Dielectric Strength: 1500 V_{RMS}

Frequency Range: Data/voice = 300 Hz to 3500 Hz

Data = 800 Hz to 3500 Hz

MECHANICAL SPECIFICATIONS

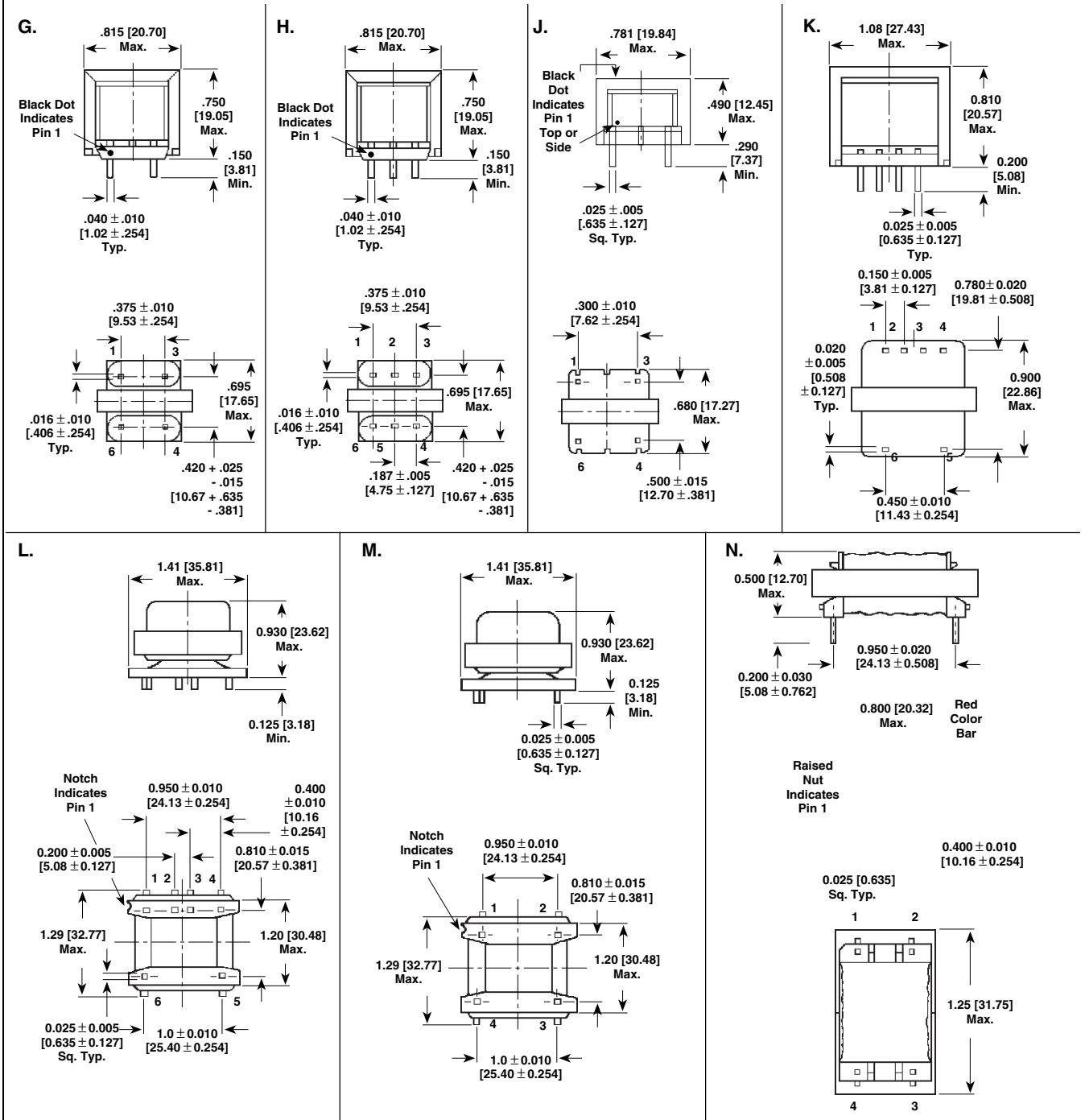
Coating: Impregnated with polyester varnish

Terminals: Precision spaced PC type plug-in terminals

SCHEMATICS			
1.	2.	3.	4.
5.	6.	7.	8.
9.	10.	11.	12.
13.	14.	15.	16.

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]		
<p>A.</p>	<p>B.</p>	<p>C.</p>
<p>D.</p>	<p>E.</p>	<p>F.</p>

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



PART MARKING

- Vishay Dale
- Date code
- Model



ORDERING INFORMATION				
TA	10	01	EB	e2
MODEL	STYLE	DASH NUMBER	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER							
T	A	1	0	E	B	0	1
MODEL		STYLE		PACKAGE CODE		DASH NUMBER	



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