64 KBPS Interface Transformers

Trxcom Technology Inc

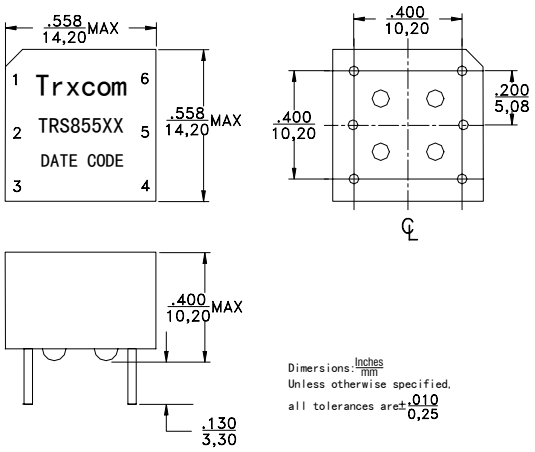
※Single and dual transformer modules for ITU G.703 codirectional applications
※Provide 1500 Vrms minimum isolation
※For RoHS-5 part add suffix NLE
※For RoHS-6 part add suffix NL
※For detail of RoHS Compliance,please refer to Page 55

Electrical Specifications @ 25℃ --- Operating Temperature 0℃ to 70℃

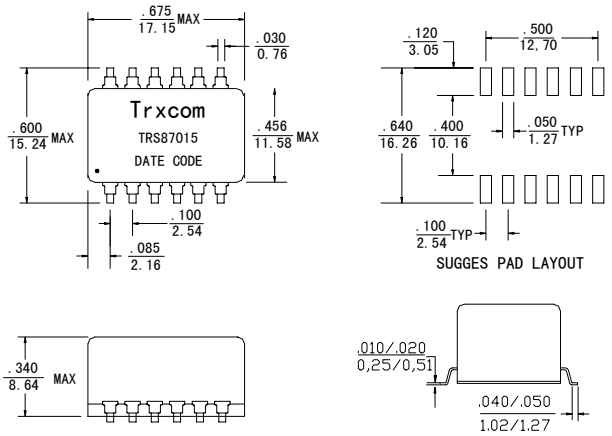
Part Number	Turns Ratio (±3%)	OCL (mH MIN)	L_L (μH MAX)	$C_{W/W}$ (pF MAX)	DCR Pri (Ω MAX)	DCR sec (Ω MAX)	Package/ Schematic	Matched To
TRS85535	1:2CT	20.0	5.0	130	2.65	5.0	A	EXAR XR6164 XR-T6165, XR-T6166
TRS85540	1CT:1	10.0	5.0	100	2.60	2.6	B	--
TRS87015	1:2CT&1:2CT	20.0	5.0	130	2.80	5.6	C	--

Mechanicals

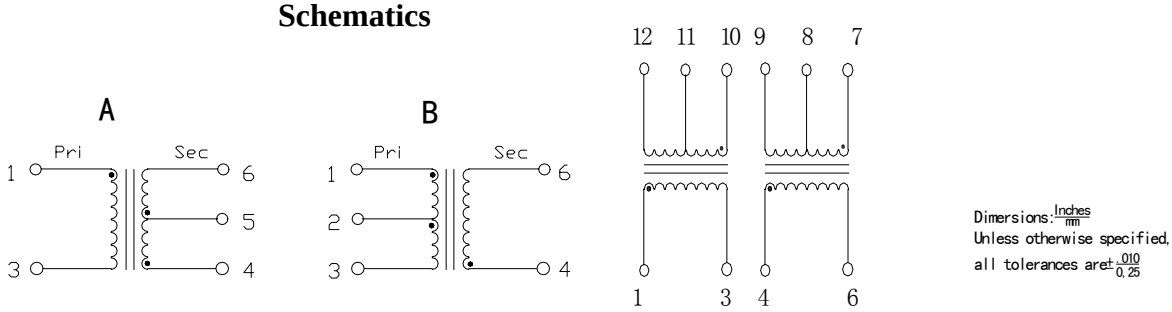
TRS85535 TRS85540



TRS87015



Schematics



The CCITT recommendations G.703 describe the physical and electrical characteristics of digital interfaces at 64 Kbps. TRS85535 listed above has been designed for the codirectional interface and matches the driver/receiver chips from EXAR (XR6146, XR-T6165, and XR-T6166). The characteristics of these transformers allow the pulse to comply with the pulse masks in the 120 **Ω systems.**

Transformers For Digital Audio Data Transmission

Trxcom Technology Inc

※Designed for Cirrus Logic's CS8401,CS8402,CS8403 & CS8404 ICs
※High isolation voltage: 2kV MIN
※For RoHS-5 part add suffix NLE
※For RoHS-6 part add suffix NL
※For detail of RoHS Compliance,please refer to Page 55

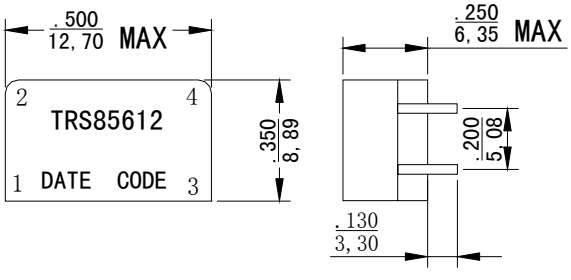
Electrical Specifications @ 25℃ --- Operating Temperature 0℃ to 70℃

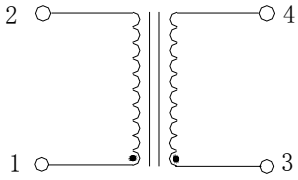
Part Number	Turns Ratio	Primary Inductance (mH±20%)	L_L (μH MAX)	Rise Time (nsec) MAX	ET (V-μsec) MAX	Isolation (Vrms) MIN	Bandwidth (100 KHz –55 MHz) TYP	Return Loss (100 kHz-10MHz) MIN	Schematic
TRS85612	1:1(±5%)	2.5	.50	25	20	2000	3dB	20dB	THT
TRS85812	1:1(±5%)	2.5	.50	25	20	2000	3dB	20dB	SMT

Mechanicals

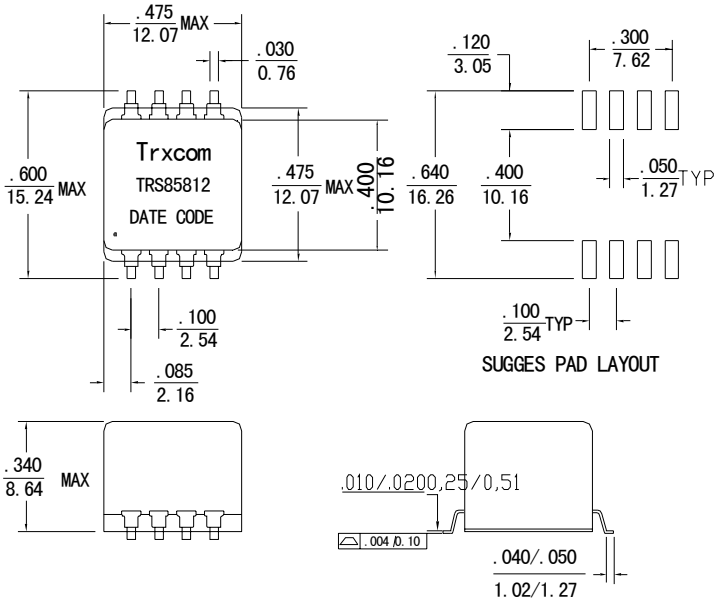
Schematics

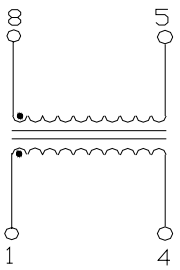
TRS85612





TRS85812





Dimensions: Inches / mm
Unless otherwise specified all tolerances are ±.010 / 0, 25

Audio Transformers Surface Mount Package

Trxcom Technology Inc

※Typical applications: telephone sets, PBXs, DLC systems, central office switches
※Small SMT Footprint
※For RoHS-5 part add suffix NLE
※For RoHS-6 part add suffix NL
※For detail of RoHS Compliance,please refer to Page 55

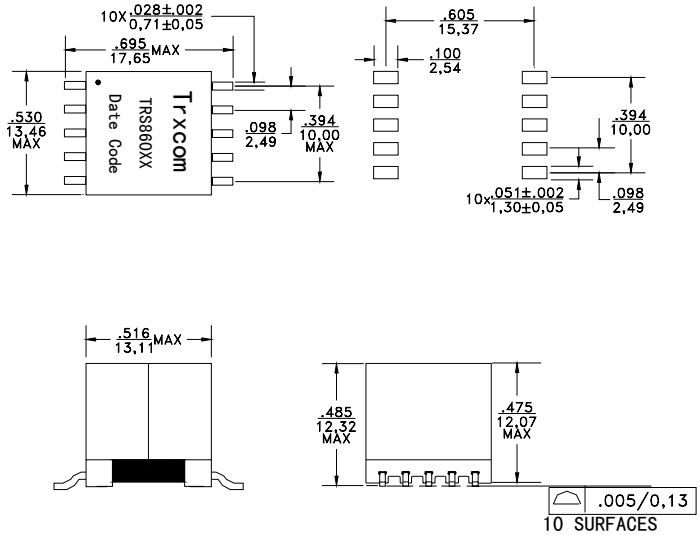
Electrical Specifications @ 25℃

Part Number	Turns Ratio Pri:Sec (±2%)	DCR Pri Side (Ω MAX)	DCR Sec Side (Ω MAX)	Isolation Voltage (Vrms MIN)	Insertion Loss (dB MAX)				Return Loss (dB MIN)		
					200Hz	1KHz	20KHz	100KHz	200Hz	1KHz	10KHz
TRS86027	1:2	55	390	1500	1.2	1.0	1.0	1.7	18	18	18
TRS86003	1:1	55	70	1500	1.0	1.0	1.0	1.9	20	30	25

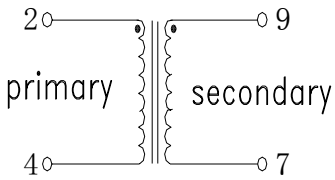
Mechanical

Schematic

TRS86003,TRS86027



TRS86003:600Ω/600Ω
TRS86027: 600Ω/2400Ω



Dimensions: Inches / mm

Unless otherwise specified,all tolerances are ±.010 / 0,25

Transformers For Echelon® Neuron® ICS

Trxcom Technology Inc

※Developed for Use with 3120™ & 3150™ Chips Produced by Motorola and Toshiba
※Provides 1500 Vrms isolation for 1 minute
※For RoHS-5 part add suffix NLE
※For RoHS-6 part add suffix NL
※For detail of RoHS Compliance,please refer to Page 55

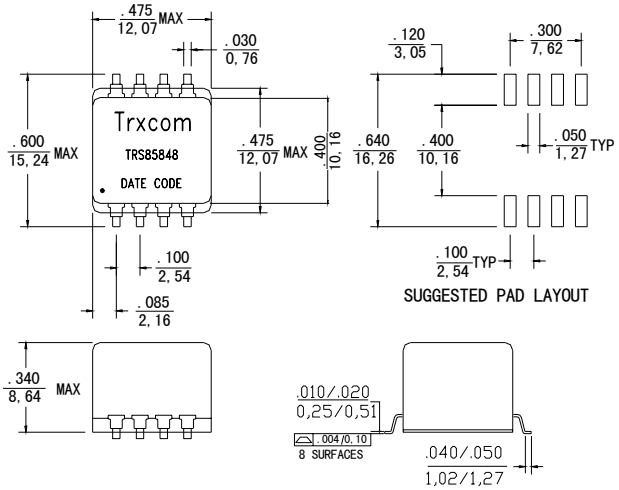
Electrical Specifications @ 25℃--- Operating Temperature -40℃ to + 85℃

Part Number	Turns Ratio (±2%)	Primary Inductance (mH)	DCR Primary (Ω MAX)	DCR Secondary (Ω MAX)	Primary Pins (Network Side)	Package
TRS85848	1CS:1CS	3.5-6.5	1.0	1.0	8-5	Surface Mount
TRS85948	1CT:1CT	3.5-6.5	1.0	1.0	2-6	Through Hole

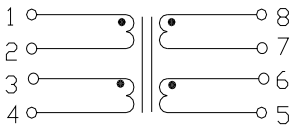
*CS = center split , CT = center tap

Mechanical

TRS85848



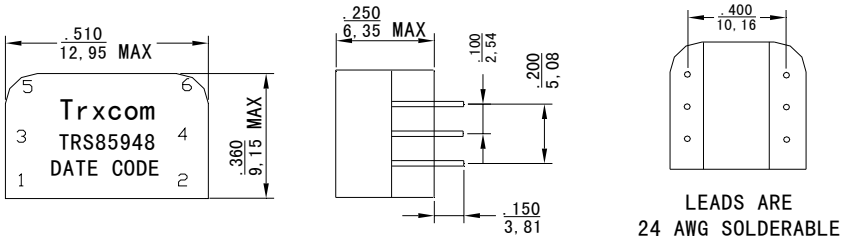
Schematic



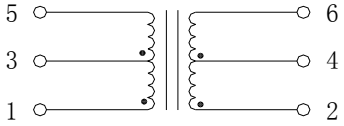
Dimensions: INCHES / mm
Unless otherwise specified,
all tolerances are ± .010 / 0,25

Mechanical

TRS85948



Schematic



Dimensions: Inches / mm
Unless otherwise specified all
tolerances are ± .010 / 0,25