

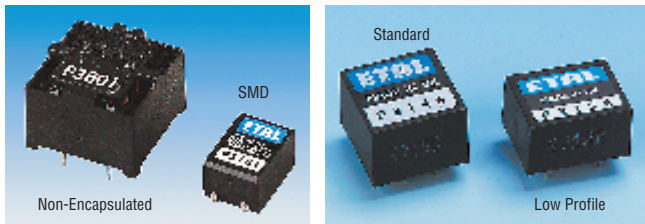
- 177-497** Industry standard 600Ω 1:1 line transformer. **BABT CR/0125**
- 482-328** Low profile version of 177-497 for use where height is restricted. **BABT CR/0127**
- 482-330** Low distortion type for high speed applications. **BABT CR/0128**
- 482-341** High efficiency device, with improved coupling, frequency response and return loss characteristics. **BABT CR/0126**.
- 136-890** Devoted to 56k Bit Modem applications. Single bobbin gives extremely low leakage inductance figures. **BABT CR/0126**.

Characteristics measured under test circuit conditions.

Insertion loss	1.5dB max. @ 1kHz			
	1.5dB, 200-4kHz (482-341) 0.8dB @ 1kHz			
Return loss	>20dB, 200-4kHz			
Isolation	3750V rms max.			
Saturation	10V rms, 65V pk @ 50Hz			
Balance	>80dB, 200-400kHz			
Distortion	0dB/600Ω, f = 450Hz			
	second harmonic <-88dB (482-330/136-890)			
Linearity	<0.03% THD 300-4kHz @ -10dBm/600Ω (482-341)			
Winding resistance, typ (Ω)	177-497/482-330 482-328 482-341			
Primary	68 65 50			
Secondary	68 65 60			
Mfrs. List No.	OEP1200 = 177-497, TF048 = 482-341,	Z1260 = 482-328, Z1656/4 = 136-890	Z1612E = 482-330,	

	Order Code	1+	10+	25+	50+	100+
Standard	177-497					
Low profile	482-328					
Low distortion	482-330					
High efficiency	482-341					
56k Bit	136-890					

High Speed Internet Access (56k bps) 600Ω Line Matching 1:1



H = 12.6, W = 18, D = 18 Drilling 12.7 7.62	H = 7, W = 9, D = 13 Drilling 10 10	H = 12.6, W = 18, D = 18 Drilling 12.7 7.62	H = 11, W = 55, D = 13 Drilling 10 10
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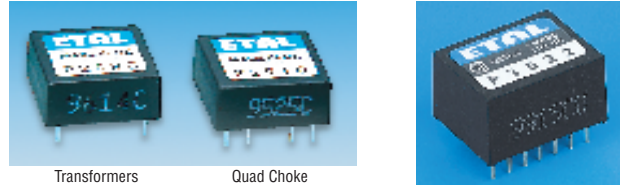
- Optimised to meet the demanding specifications for 56k bits/seconds
- Approved to **EN 60950** (Reinforced Isolation)
- **BABT** Certificate of Recognition
- **CSA/NRTL certified to CSA C22.2 No. 950-95/UL 1950**

Isolation, 50Hz	>3.88 KV RMS				
Saturation Voltage, 50Hz	<10Vrms, 65V pk				
Balance, DC-5KHz	>80 dB				
Farnell Order Code	309-8023	309-8035	899-835	899-847	309-7985
Mfrs List No.	P3356	P3801	P3146	P3156	P3181
Construction	Non Encap.	Non Encap.	Std.	Low Profile	SMD
C of R	—	608755	CR0136	CR0137	CR0139
Typ. Insertion Loss (dB)	1.5	1.5	2.5	4.8	—
Freq. Response- LF - 3dB cut off	10	—	10	10	—
100Hz - 4kHz (Typ)	±0.1dB	±0.2dB	±0.6dB	±0.2dB	—
Return Loss (Min) (dB)	16	18	16	14	16
Distortion (Typ) (dBm)					
(150Hz - 3dBm in line)	-70	-90	-81	-77	-90

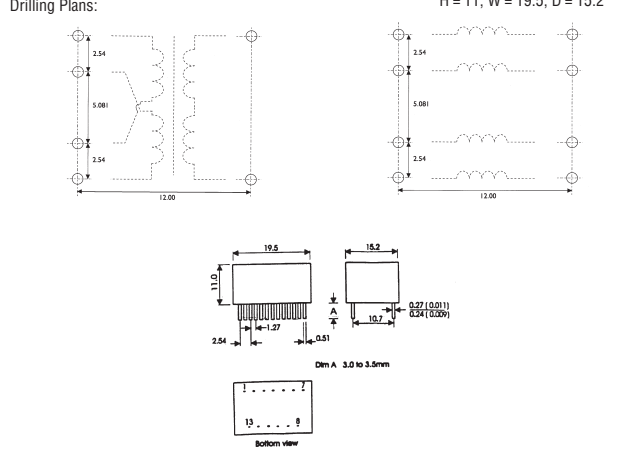
	Order Code	1+	10+	25+	50+
Non-Encapsulated	309-8023				
	309-8035				
Standard	899-835 ‡				
Low Profile	899-847				
SMD	SMD 309-7985				

‡ Not for new design

ISDN Basic Rate Interface (S₀) CCITT (ITU-T) I.430 Compliant – BABT Approved



Transformers H = 7, W = 13.9, D = 14.3 Quad Choke H = 7, W = 13.9, D = 14.3 Interface Modules H = 11, W = 19.5, D = 15.2



- A range of transformers for use with the major chipsets for ISDN Basic Rate S₀ Interface circuits. Approved to **EN 60950** (reinforced isolation) and **EN41003**, they also carry a **BABT** Certificate of Recognition.
- Interface modules, comprising 2 transformers, quad choke and overvoltage protection
- Universal Common Mode quad choke
- **CSA/NRTL certified to CSA C22.2 No. 950-95/UL 1950**

Turns Ratio	Compatible Chipsets	Mfrs. List No.	Order Code
Transformers			
2 : ½ + ½	Siemens PEB 2080, PEB 2081, PEB 2086, PEB2186 Mitel MT8930. AMD AM79C30A. National TP3420.	P2880	761-011
2.5 : ½ + ½	Motorola MC 145574	P2882	761-035
Interface Modules			
2:1	Siemens PEB2085, PEB2086, PSB2186, AMD AM79C30A	P3022	309-7961
1:1	Motorola MC145474	P3023	309-7973
Quad Choke	Universal (Standard 4 4mH Choke)	P2910	761-047
Electrical Specification (All Transformer variants)			
Voltage isolation, 50Hz	3.88kVrms	Leakage inductance (10kHz)	<10μH
Primary inductance (10kHz)	>22mH	Shunt loss (10kHz, 100mV)	>20kΩ

Turns Ratio	Order Code	1+	10+	25+	50+	100+
Transformers						
2 : ½ + ½	761-011 ‡					
2.5 : ½ + ½	761-035 ‡					
Interface Modules						
2:1	NEW 309-7961					
1:1	NEW 309-7973					
Quad Choke	761-047 ‡					

‡ Not for new design

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