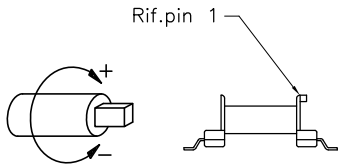
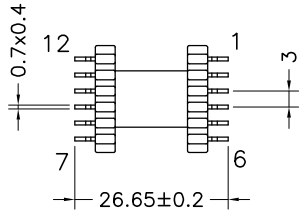
AVV. Wind.	CONDUTTORE Wire	Nr. SPIRE Nr. of turns	Rotaz	PIN DI USCITA Pin output	SPIRE STRATO Turns per layer	Nr. STRATI Nr. of layers	NOTE Remarks
N1	Filo rame Ø0,15 Rif.4	0 65	+	2 3	56	2	ESEGUIRE 1 GIRO DI SPONDINA H=3MM RIF.9 LATO 7–12 Execute 1 turn of tape h=3mm ref.9 side 7–12
ISOLAMENTO: Insulation:	2	GIRI DI NASTRO ADESIVO POLIESTERE RIF. turns of polyester adhesive tape Ref.				7	
N2	TEX–E050 Rif.5	0 10	+	7 8	10	1	ATTRAVERSAMENTO A 90° SU NASTRO LATERALMENTE Perpendicular crossing on tape
ISOLAMENTO: Insulation:	2	GIRI DI NASTRO ADESIVO POLIESTERE RIF. turns of polyester adhesive tape Ref.				7	
N3	Filo rame Ø0.50 Rif.6	0 10	+	6 5	10	1	LASCIARE 3MM LATO 7–12 ATTRAVERSAMENTO A 90° SU NASTRO LATERALMENTE Leave 3mm side 7–12. Perpendicular crossing on tape
ISOLAMENTO: Insulation:	2	GIRI DI NASTRO ADESIVO POLIESTERE RIF. turns of polyester adhesive tape Ref.				7	
N4	Filo rame Ø0,15 Rif.4	0 65	+	3 1	46	2	ESEGUIRE 1 GIRO DI SPONDINA H=3MM RIF.9 LATO 7–12 E 1 GIRO DI SPONDINA H=1MM RIF.8 LATO 1–6 Execute 1 turn of tape H=3mm ref.9 side 7–12 and 1 turn of tape H=1mm ref.8 side 1–6
ISOLAMENTO: Insulation:	2	GIRI DI NASTRO ADESIVO POLIESTERE RIF. turns of polyester adhesive tape Ref.				7	

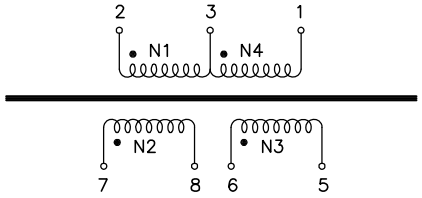
POSIZIONAMENTO ROCCHETTO
Positioning of the coilformer



PIEDINATURA (VISTA DAL BASSO)
Pin–out (bottom view)

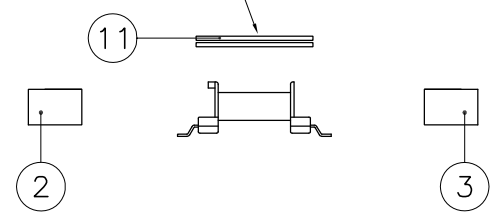


SCHEMA ELETTRICO
Electrical diagram

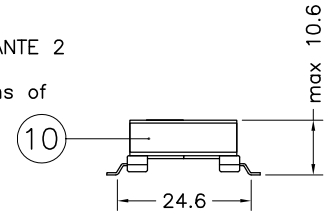


MONTAGGIO – Assembling

APPLICARE NR.2 PIASTRINI ISOLANTI RIF.11
Apply nr.2 spacers ref.11

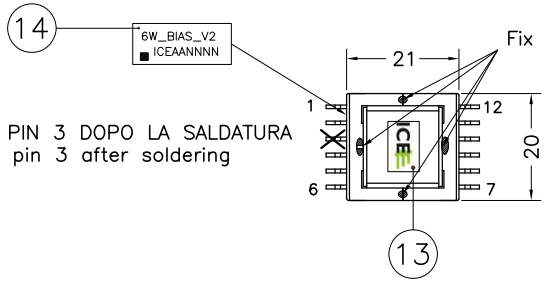


ASSIEMARE I SEMINUCLEI MEDIANTE 2 GIRI DI NASTRO RIF.10
Fix the halfcores with 2 turns of tape ref.10



BLOCCARE NUCLEO/NUCLEO E ROCCHETTO/NUCLEO MEDIANTE RIF.15+16
Fix core/core and coil/core with ref.15+16

TAGLIARE PIN 3 DOPO LA SALDATURA
cut pin 3 after soldering



2011/65/UE (RoHS–2) Compliant

DIMENSIONI IN MILLIMETRI
Dimensions in millimeters

COLLAUDO ELETTRICO – Electrical checking

TIPO DI PROVA – Test	CONDIZIONI DI PROVA – Test Conditions	LIMITI – Limits
INDUTTANZA Inductance	2–1 @ 10 kHz – 100 mV	4.25 ÷ 5.75 mH
RAPPORTO SPIRE Turns ratio	TRA TUTTI GLI AVV. Between all windings @ 10kHz – 100mV	< 1 SPIRA Turn
RIGIDITÀ DIELETTRICA Dielectric strength	2+1+6+5/7+8 @ 4200 V – 50 Hz – 2 sec.	SUPERARE LA PROVA pass the test
RIGIDITÀ DIELETTRICA Dielectric strength	2+1/6+5 @ 300 V – 50 Hz – 2 sec.	SUPERARE LA PROVA pass the test
INDUTTANZA DISPERSA Leakage inductance	2–1 @ 10 kHz – 100 mV – 5+6+7+8 c.c.	< 40 µH

REV Rev	DATA APPR Appr. Date	RIF. MOD. Ref. Mod.	DESCRIZIONE MODIFICA Description of modification	REDAZIONE Editing	VERIFICA E APPROVAZIONE Check and approval
01	30.06.17		EMISSIONE – Release	C. Picciani	D. Di Giorgio

I.C.E. TRANSFORMERS

DESCRIZIONE–Description: Transformer EFD20 SMD (6W_BIAS_V2)

DOCUMENTO–Document	CODICE–Part Number	REV.–Revision	DATA EMISSIONE–Release date	PAG.–Page
P.F.	8066.0103.030	01	30.06.17	1/1

Mod. AQ 05.09

Bill of Material Item: 8066.0103.030 *Transformer EFD20 SMD 6W_BIAS_V2*

Variant	Upd. Last	Execution	Approval
0000	14/02/2018	1027 DI GIORGIO DAVIDE 01/02/2017	1027 DI GIORGIO DAVIDE 01/02/2017

Components

Ref.	Component			Quantity	Notes
01	0228.0101.010	Coilformes EFD20 12 PINS SMD S-2005 (B-082.101)	N	1	
02	0904.0701.048	Half Core EFD20/7 3C95 AL1540±25% EFD20-3C95	N	1	049 (DMR95)
03	0904.0701.056	Half Core EFD20/7 3C95 gap 0.12±0.02mm EFD20-3C95 gap 0.12±0.02mm	N	1	.057 (DMR95)
04	1007.1277.001	Copper Wire Ø 0.15mm G2 class F 155°C POLYSOL 155-MW79 - E125650	KG	0,001	
05	1009.0101.004	Triple insulated Wire TEX-E 0,50mm E206440	M	0,4	1009.0401.004 o eq.
06	1007.1225.001	Copper wire S.F G2 weldable Ø=0.50mm 155°C - MW79 UL-E125650	KG	0,001	
07	1614.0101.018	Polyester tape.th=0.06mm H=12.5mm x66 mt P-31 Sun Yellow - E178430	CM	40	
08	1614.0203.010	Polyester tape th.0.45mm H=1mm 201-45 H=1mm - E175868	CM	6	
09	1614.0203.003	Polyester tape th.0.45mm H=3mm 201-45 - E175868	CM	15	
10	1614.0101.041	Polyester tape.th=0.06mm H=6 mm x 66 mt P-31 Sun Yellow - E178430	CM	20	
11	1619.0201.004	Insulating wacher for EFD20 nomex type 410 - E178430	N	2	
13	3206.0704.001	PVC label 8x6mm .	N	1	
14	3206.0119.001	Polyester label 7816 - MH16411	N	1	
15	1910.0102.004	Epoxy resin 36-T	KG	0	
16	1909.0103.002	Activator for epoxy resin IN1005	KG	0	
	2125.0000.002	Tray thermo perforated 30x30mm antistatic	N	0,042	