

SPECIFICATION**LEAD FREE**

CUSTOMER : COMET ELECTRONICS

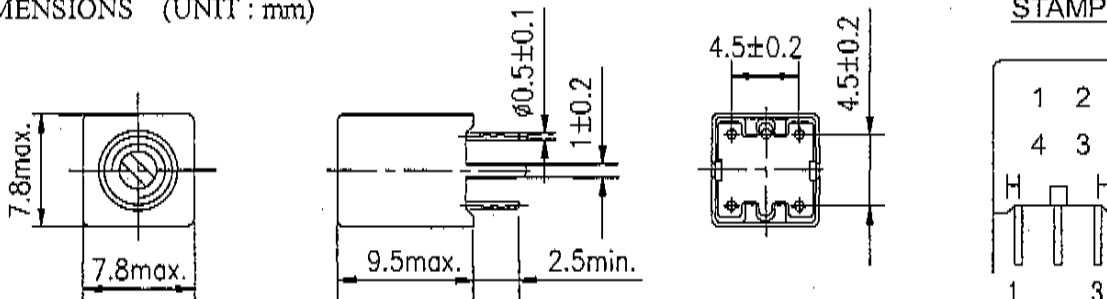
APPROVED BY

CUS. PART NO. :

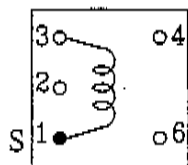
COILS PART NO. : A71108006

DATE : 2007/11/09

1. DIMENSIONS (UNIT : mm)



2. CONNECTION (BOTTOM)



3. TURNS, WIRE AND CORE

PIN. NO.	1 - 3		
TURNS (Ref.)	18 T		
WIRE	$\phi 0.10 \text{mm}$ (2UEW)		
SCREW CORE	EM9D	OR EQUIVALENT	
POT CORE	EM9D	OR EQUIVALENT	

4. CHARACTERISTICS

ITEM	SPEC. (1 - 3)	TESTING CONDITIONS	MEASUREMENT INSTRUMENT
VARIABLE INDUCTANCE	$2.7 \mu\text{H} \pm 3\% \text{ Min.}$	7.96MHz	MQ-1601
UNLOADED Q	35 Min.	7.96MHz	MQ-1601

5. GENERAL CHARACTERISTICS:

- ① Core Torque : 10 ~ 250gf · cm
- ② Dielectric Strength: No abnormality at 100V D.C. for 1 minute between winding-case.
- ③ Insulation Resistance: Over 100M Ω at 100V D.C. between winding-case.
- ④ Humidity Test : Frequency (Inductance) deviation within $\pm 0.5\%$ ($\pm 1\%$)
Deviation of Q within $\pm 20\%$
- After 96 ± 4 hours in 90~95% relative humidity at $40^\circ\text{C} \pm 2^\circ\text{C}$ and 60 minutes drying-under normal condition.
- ⑤ Temperature Test : Frequency (Inductance) deviation within $\pm 0.5\%$ ($\pm 1\%$)
Deviation of Q within $\pm 20\%$
a. After 6 hours at $-25^\circ\text{C} \pm 3^\circ\text{C}$ and 1 hour later under normal condition.
b. After 6 hours at $85^\circ\text{C} \pm 2^\circ\text{C}$ and 1 hour later under normal condition.
- ⑥ Terminal Strength : No abnormality at 0.5kg for 30 ± 5 seconds (pull and push).
- ⑦ Terminal Heat Test: No abnormality at $250^\circ\text{C} \pm 5^\circ\text{C}$ for 5 seconds.

6. RoHS COMPLIANCE REMARKS: LEAD WILL BE PRESENT IN THE FERRITE CORE OF THE FRIT MATRIX IN THE COMPONENT. THIS USE, IS EXEMPT FROM RoHS LEGISLATION PER THE ANNEX (ITEM7), WHICH REFERS TO "LEAD IN ELECTRONIC CERAMIC PART".

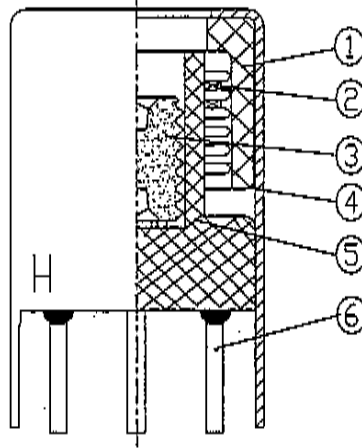
APPROVAL	CHECK	DESIGN	REVISION

SPECIFICATION

LEAD FREE

CUSTOMER : COMET ELECTRONICS	APPROVED BY
CUS. PART NO. :	
COILS PART NO. : A71108006	
DATE : 2007/11/09	

7. CONSTRUCTION



8. MATERIAL LIST




No.	PARTS	MATERIAL	MANUFACTURER	COUNTRY OF ORIGIN	UL No.	UL FLAME CLASS
①	POT CORE	FERRITE CORE EM9D OR EQUIVALENT	TONICHI FERRITE PRODUCTS CO., LTD.	CHINA	NA	NA
②	WIRE	POLYURETHANE ENAMELLED COPPER WIRE OR EQUIVALENT	PACIFIC-THAI ELECTRIC WIRE & CALBE CO., LTD.	THAILAND	E142108	NA
			JUNG SHING WIRE CO., LTD.	CHINA (TAIWAN)	E174837	NA
			TA YA ELECTRIC WIRE FACTORY	CHINA	E197768	NA
③	SCREW CORE	FERRITE CORE EM9D OR EQUIVALENT	TONICHI FERRITE PRODUCTS CO., LTD.	CHINA	NA	NA
④	CASE	BRASS H68 OR EQUIVALENT	TONICHI FERRITE PRODUCTS CO., LTD.	CHINA	NA	NA
⑤	BASE	PA66-1300G OR EQUIVALENT	ASAHI KASEI CHEMICALS CORP.	JAPAN	E48285	94HB
⑥	LEAD PIN	H.C.P OR EQUIVALENT	WELL FORE SPECIAL WIRE CORPORATION	CHINA (TAIWAN)	NA	NA
	SOLDER	Sn99.3-Cu0.7 OR EQUIVALENT	ALPHA METALS LTD.	CHINA (HONG KONG)	NA	NA
			YUNNAN TIN CO.,LTD	CHINA	NA	NA
	STAMP	INK(Z370) OR EQUIVALENT	TOYO INK.	JAPAN	NA	NA
	ADHESIVE	COMPOUND RESIN 666 OR EQUIVALENT	BAYER - W. GERMANY CO., LTD.	GERMANY	NA	NA

* NA: NOT APPLICABLE

APPROVAL	CHECK	DESIGN	REVISION

ELECTRICAL CHARACTERISTIC INSPECTION REPORT

2007-11-10

CUSTOMER : COMET ELECTRONICS				CUST. P/N :		
				CEC. P/N : A71108006		
ITEM :	(1-3) L: (uH)			(1-3) Q		
	TOP	MIDDLE	BOTTOM	TOP	MIDDLE	BOTTOM
SPEC.	2.70 ± 3% Min. (2.781~ 2.619)Min.			35 Min.		
1	3.70	2.70	1.59		52	
2	3.80	2.70	1.58		52	
3	3.50	2.70	1.58		53	
4	3.70	2.70	1.59		52	
5	3.65	2.70	1.60		53	
Max.	3.80	2.70	1.60		53	
Min.	3.50	2.70	1.58		52	
R	0.30	0.00	0.02		1	
X	3.670	2.700	1.588		52.4	
TESTING FREQUENCY	7.96MkHz					
TUNING CAPACITANCE						
TESTING INSTRUMENT :				REMARK:		
1.Q METER						
<input checked="" type="checkbox"/> MQ-1601						
<input type="checkbox"/> MQ-171						
<input type="checkbox"/> HP-4342A						
2.L.C.R.METER						
<input type="checkbox"/> LCR-745						
<input type="checkbox"/> HP-4284A						
<input type="checkbox"/> HP-4277A						
<input type="checkbox"/> HP-4285A						
<input type="checkbox"/> HP-4262A						
<input type="checkbox"/> HP-4395A						
3.IMPEDANCE ANALYZER						
<input type="checkbox"/> HP-4191A						
<input type="checkbox"/> HP-4294A						
TESTING CONDITION :				APPROVED	CHECKED	TESTED
TEMPERATURE : 25 °C						
HUMIDITY : 65 %						