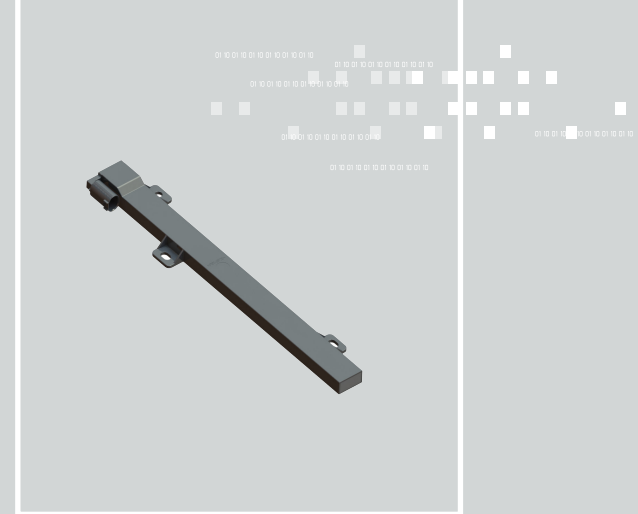


New

KGEA-LR

LF Long Range Antenna (3 cores) Housing 265x21x11,5mm (100µH - 500µH)

EMITTER ANTENNAS / LONG RANGE



FEATURES

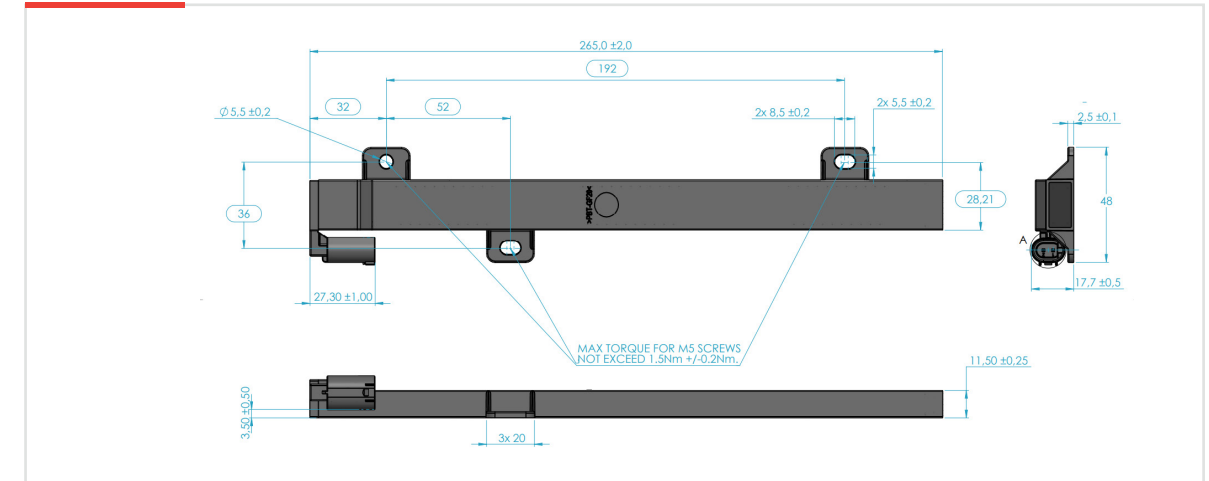
- › Transmitting low frequency.
- › High Strength Magnetic Field and Sensitivity.
- › High impact absorption and mechanical reduction preventive. Material PBT-GF20%
- › LF emitter antenna assembly by external housing + Sealed by PU-resin.
- › Flat antenna lateral position connector assembled into external housing plastic.
- › Strong anchor points which provide an easy assembly and will ensure mechanical robustness.
- › IP6k grade waterproof

01 ELECTRICAL PARAMETERS

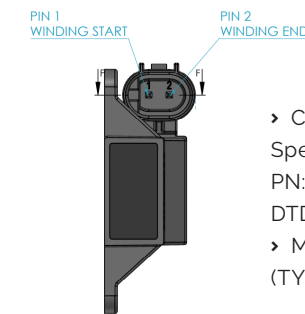
- › Work frequency LF: fo= 20Khz, 125kHz and 134,2,KHz
- › Reference Electrical Field: E-field > 145 (dBµV/m @2App@1 meter @125khz)
- › Reading Distance from 6 to 9 meters (depending load lpp)
- › lpp max until 5App
- › High stability in temperature (-40°C up to +85°C).
- › Reliability test: This part is according to AEC-Q200 Revision C.

02 SPECIFICATIONS

DIMENSIONS (mm)

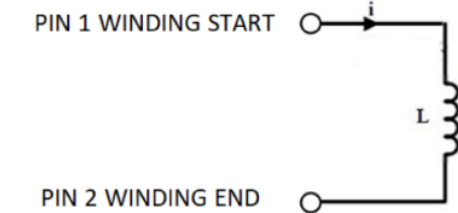


CONECTOR PIN LAYOUT



- › Connector according to Specification: AMP (TYCO), PN:114-18063-012 REV D4 DTD 10MAR08, CODIG A.
- › Mating Connector; AMP (TYCO) PN: 1-1438608-1.

SCHEMATIC DIAGRAM



ELECTRICAL SPECIFICATIONS

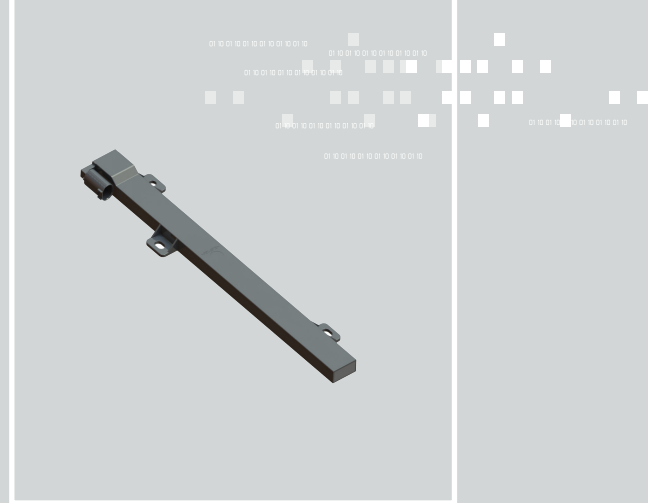
PART NUMBER	L Inductance ± 5%	Q-factor min	Freq. (kHz)	Rdc (mΩ) ± 10%
KGEA-LR-B-0125J	125uH	150	125,0	280

New

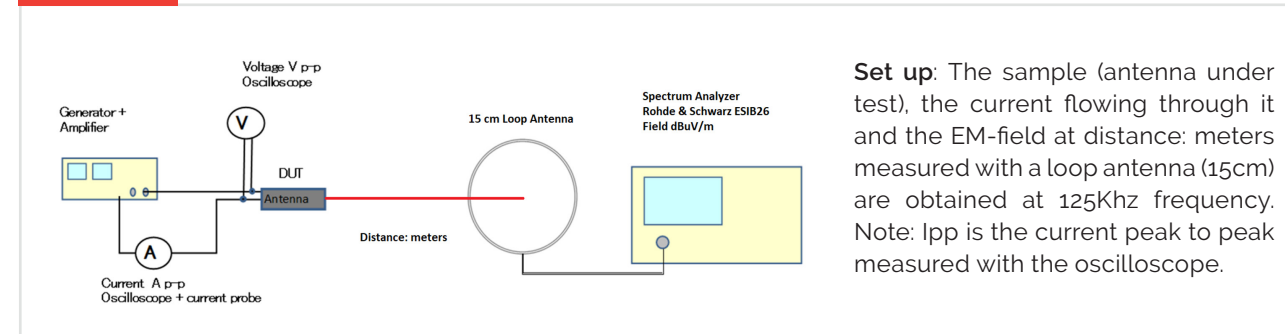
KGEA-LR

LF Long Range Antenna (3 cores) Housing
265x21x11,5mm (100µH - 500µH)

EMITTER ANTENNAS / LONG RANGE

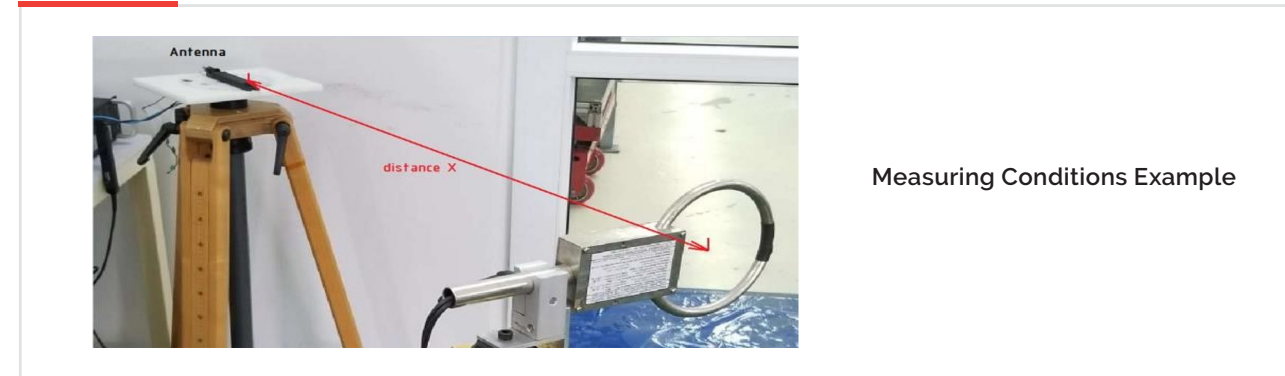


H-FIELD (Electromagnetic field strength):



Set up: The sample (antenna under test), the current flowing through it and the EM-field at distance: meters measured with a loop antenna (15cm) are obtained at 125Khz frequency. Note: Ipp is the current peak to peak measured with the oscilloscope.

ORIENTATION LOOP-ANTENNA VS PREMO ANTENNA



Measuring Conditions Example

RESULTS

Magnetic FieldH(dBmV/m) @125kHz	1m	2m	3m	4m	5m
1App	136,10	122,00	112,30	106,70	100,90
2App	142,30	128,20	118,50	112,40	107,20
3App	145,80	131,70	121,90	116,00	110,90
4App	148,25	134,25	124,40	118,55	113,30

KGEA-LR-0125J vs @Ipp @ Distance @125kHz

