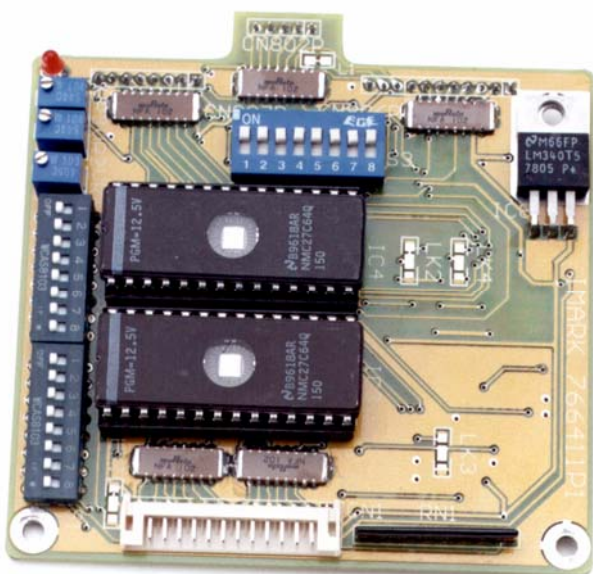


IMARK

PRODUCT DESCRIPTION



10-QCT(I) CTCSS MODULE

Multi-Tone CTCSS Encoder/Decoder for KG110 Repeaters

Imark Stock # 930950

Features:

- 50 CTCSS Tones
- Encodes and Decodes Simultaneously
- Tones Selectable on a per Channel Basis
- Encode & Decode Tones can be different
- Tones set by EPROM or DIP Switch
- Monitor function for fault finding or to by-pass the decoder
- EMI Filters on all I/O lines
- Low Voltage Alarm

DESCRIPTION:

The **IMARK 10-QCT (I)** is a CTCSS Encoder/Decoder Module for use with the KG110 BASE/REPEATER station to provide simultaneous encoding and decoding operation. It eliminates the use of a tone panel and is installed inside the KG110 cabinet.

The **IMARK 10-QCT (I)** will encode & decode all 37 EIA plus 13 other tone frequencies (including 97.4Hz). Simultaneous Cross-Tone Decode & Encode is possible on a per channel basis with the required CTCSS tones being programmed into EPROM. DIP switches can be used for tone selection when a single CTCSS Encode and a single CTCSS Decode tone only is required.

The **IMARK 10-QCT (I)** includes a Monitor function for system fault finding or for bypassing the decoder while all I/O lines are fitted with EMI filters. A Low Voltage Alarm module is included to provide an "on-air" warning of low DC voltage (or low battery voltage in solar power systems). The Low Voltage Alarm is normally configured to generate an alarm tone during the transmitter TX delay period as a means of advising users that the supply voltage is below the pre set level.

SPECIFICATIONS:	
Operating Voltage	10.5 – 16V DC
Operating Current	150 mA Max
Encode Output Level	Adjustable to > 600Hz Deviation.
Decoder Band Width	+ / - 1%, + / - 2% Selectable
Frequency Tolerance	+ / - 0.05%
Frequency Stability	+ / - 0.01%
Encode Turn On Time	< 20mS
Decoder Sensitivity	< 10mV RMS at Decoder input
Decoder Dynamic Range	< 50dB Typical
Detect Time F. < 100Hz	< 220mS Typical
Detect Time 100 < F. < 200Hz	< 150mS Typical
Detect Time F. > 200Hz	< 100mS Typical
Unit Dimensions	83(D) x 81(W) x 18(H) mm
Shipping Dimensions	120(L) x 155(W) x 45(H) mm
Unit Weight:	61 Grams
Shipping Weight:	120 Grams
Approvals	
Inclusions	CTCSS Module, Installation Instructions
Imark Stock #	930950
Options	