



IDT Communication Technology Ltd.

万威通讯科技有限公司

Electrical Specification

Division - PDD-TE
 Model - EVR-100(EA362USL)
 Doc. No. -
 Rev.- 1
 Sheet - 1 of 1

DESCRIPTION	Unit	LIMIT
FEATURE		
Frequency Range:Transmit	MHz	156.025 To 157.425
Frequency Range:Receive	MHz	156.025 To 163.275
Number Of Channels		55 INT Channels 53 USA channels 61 CANADA channels 10WEATHER channels
Oscillate Mode		PLL
Modulation		FM(16KOG3E)
Channel Spacing	KHz	25
Frequency Stablility	PPM	±10
Standard Operation Temperature	°C	-20 To + 50
Normal Working Voltage	V	+13.8 V DC
Minimum operating Voltage	V	≤10
Low battery detect Voltage	V	10.5V ± 0.2V
RECEIVER		
Intermediate Frequency : 1st	MHz	21.4
: 2nd	KHz	450
Sensitivity : 12dB SINAD	dBuV(EMF)	≤-6
Squelch Sensitivity : at tight	dBuV(EMF)	≤6
Spurious Response Rejection Ratio	dB	≥65
Adjacent Channel Selectivity	dB	≥65
Intermodulation Response	dB	≥65
S/N at 3KHz Dev.	dB	≥40
Audio Output Power At THD 10%	W	≥2
Audio Response (EIA STANDARD)		
@300HZ	dB	11.5 ± 2
@2500HZ	dB	- 7 ± 2
Current Drain At : Max Audio Power	A	≤1.0
: Stand-By	A	≤0.3
TRANSMITTER		
Frequency error	KHz	± 300
RF Power : Hi	W	7 ± 1.5
: Lo	W	0.7 ± 0.2
Carrier freq. stability (-20°C to 50°C)	KHz	± 1.5
Maximum Deviation	KHz	± 4.2 ~ 4.9
S/N at 3KHz Dev.	dB	≥35
Modulation Distortion ±3KHz	%	≤7
Audio Response at 1KHz Dev. (EIA STANDARD)		
@300HZ	dB	9.5 ± 2
@2500HZ	dB	- 9 ± 2
Spurious/Harmonic Emissions : Hi/LO	dBm	≤ - 36
Modulation Sensitivity	mV	≤ 8 ± 3
Current Drain At 13.8V DC : Hi Power	A	≤ 1.8
: Lo Power	A	≤ 0.9

1.Water Resistance – JIS 7;

2.The communication range is about 10 nautical miles under normal condition.