



## Bill of Materials for the LC72725KVSGB Evaluation Board

| Designator | Quantity | Description                       | Value              | Tolerance | Footprint              | Manufacturer                  | Manufacturer Part Number | Substitution Allowed | Lead Free  |
|------------|----------|-----------------------------------|--------------------|-----------|------------------------|-------------------------------|--------------------------|----------------------|------------|
| <b>IC1</b> | <b>1</b> | <b>RDS Demodulator</b>            | <b>-</b>           | <b>-</b>  | <b>SSOP16 (225mil)</b> | <b>ON Semiconductor</b>       | <b>LC72725KVS</b>        | <b>No</b>            | <b>Yes</b> |
| Xtal       | 1        | Crystal Resonator                 | 4.332MHz (CL=12pF) | ±100ppm   | 11.0x4.6x3.3           | DAISHINKU                     | AT-49                    | Yes                  | Yes        |
| CN1        | 1        | BNC Connector                     | -                  | -         | Through Hole           | HIROSE ELECTRIC               | BNC-LR-PC-3(40)          | Yes                  | Yes        |
| C1         | 1        | DC Coupling                       | 330pF, 50V         | ±5%       | Through Hole           | Supertech Electronic          | RD15N331J1HL2L           | Yes                  | Yes        |
| C2         | 1        | Decoupling                        | 10µF, 16V          | ±20%      | Through Hole           | SUN Electronic                | 16ME10HC                 | Yes                  | Yes        |
| C3         | 1        | Bypass Capacitor                  | 0.1µF, 50V         | +80/-20%  | Through Hole           | MURATA                        | RPEF11H104Z2K1           | Yes                  | Yes        |
| C4         | 1        | DC Coupling                       | 560pF, 50V         | ±5%       | Through Hole           | MURATA                        | RPE2C1H561J2             | Yes                  | Yes        |
| C5         | 1        | External Capacitor for Oscillator | 22pF, 50V          | ±0.25pF   | Through Hole           | MURATA                        | RPE2C1H220J2             | Yes                  | Yes        |
| C6         | 1        | External Capacitor for Oscillator | 22pF, 50V          | ±0.25pF   | Through Hole           | MURATA                        | RPE2C1H220J2             | Yes                  | Yes        |
| C7         | 1        | Bypass Capacitor                  | 0.1µF, 50V         | +80/-20%  | Through Hole           | MURATA                        | RPEF11H104Z2K1           | Yes                  | Yes        |
| C8         | 1        | Bypass Capacitor                  | 0.1µF, 50V         | +80/-20%  | Through Hole           | MURATA                        | RPEF11H104Z2K1           | Yes                  | Yes        |
| C9         | 1        | Decoupling                        | 100µF, 16V         | ±20%      | Radial                 | SUN Electronic                | 16ME100HC                | Yes                  | Yes        |
| R1         | 1        | Pull-up/Pull-down Resistor        | 5.6kΩ, 0.166W      | ±5%       | Through Hole           | AKAHANE Electronics Ind. Corp | RD16**562J               | Yes                  | Yes        |
| R2         | 1        | Pull-up Resistor                  | 1.2kΩ, 0.166W      | ±5%       | Through Hole           | AKAHANE Electronics Ind. Corp | RD16**122J               | Yes                  | Yes        |
| R3         | 1        | Current Limiter                   | 240Ω, 0.166W       | ±5%       | Through Hole           | AKAHANE Electronics Ind. Corp | RD16**241J               | Yes                  | Yes        |
| R4         | 1        | Pull-up/Pull-down Resistor        | 5.6kΩ, 0.166W      | ±5%       | Through Hole           | AKAHANE Electronics Ind. Corp | RD16**562J               | Yes                  | Yes        |
| R5         | 1        | Pull-up/Pull-down Resistor        | 5.6kΩ, 0.166W      | ±5%       | Through Hole           | AKAHANE Electronics Ind. Corp | RD16**562J               | Yes                  | Yes        |
| LED        | 1        | Indicator for RDS-ID              | -                  | -         | Through Hole           | Opto Supply Limited           | OSRR3133A                | Yes                  | Yes        |
| SW1-SW4    | 4        | Switch                            | -                  | -         | 7mm x 4.5mm            | NIHON KAIHEIKI                | G-12AP                   | Yes                  | Yes        |
| TP1-TP8    | 8        | Test Pin                          | -                  | -         | -                      | Mac Eight                     | ST-1-3                   | Yes                  | Yes        |